### Data sheet

## 3MT7006-0AA01-0AN2



3P Power Contactor AC3:6A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	7.5 W
• per pole	2.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.354 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
<ul> <li>during storage</li> </ul>	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	25 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	25 A
— at ambient temperature 60 °C rated value	19 A
• at AC-3	
— at 400 V rated value	6 A

— at 690 V rated value	4 A
operating power	
• at AC-3	
— at 400 V rated value	2.2 kW
— at 690 V rated value	3 kW
	5 KW
no-load switching frequency	4 000 4 15
• at AC	1 800 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	600 1/h
• at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
	80.1/4
	60 VA
inductive power factor with closing power of the coll	0.75
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	9 25 ms
closing delay at AC opening delay at AC	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	9 25 ms 4 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	9 25 ms 4 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	9 25 ms 4 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	9 25 ms 4 15 ms 1 0 10 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	9 25 ms 4 15 ms 1 0 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 2 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 210 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 2110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 110 V rated value         • at 110 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value </td <td>9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A</td>	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 240 V rated value         • at 600 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value<	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value         • for short-circuit pr	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 210 V rated value         • at 220 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value<	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>instantaneous contact</li> </ul> operational current at AC-12 maximum         operational current at AC-15         at 230 V rated value         at 400 V rated value         at 500 V rated value         at 690 V rated value         at 24 V rated value         at 210 V rated value         at 220 V rated value         at 600 V rated value	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height		74.5 mm				
width		45 mi	45 mm			
depth			82 mi	n		
<b>Connections/ Terminals</b>						
type of electrical conn	ection					
<ul> <li>for main current of</li> </ul>	circuit		screw	screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	v-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (1	4 mm²), 2x (1 4 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	4 mm²), 2x (1 1.5 mm²)		
type of connectable co	onductor cross-sections	6				
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>		1x (1	1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts with screw-type terminals</li> </ul>		1.2 N	·m			
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N	·m			
design of the thread of the connection screw						
<ul> <li>for main contacts</li> </ul>			M3.5			
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5				
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

Europhan information	ł
Information on the packaging	
https://support.industry.siemens.com/cs/ww/en/view/109813875	
Information- and Downloadcenter (Catalogs, Brochures,)	
https://www.siemens.com/ic10	
Industry Mall (Online ordering system)	
https://mall.induistry.siemens.com/mall/en/en/Catalog/product2mlfb=3MT7006-0AA01-0AN2	
http://support.automation.stemens.com/www/CAXorder/default.aspx?lang=en&mitp=3im17006-0AA01-0AN2	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA01-0AN2	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7006-0AA01-0AN2⟨=en	
Characteristic: Tripping characteristics. I <sup>2</sup> t. Let-through current	
https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA01-0AN2/char	
Further characteristics (a glocatical and gapes, switching frequency)	
Further characteristics (e.g. electrical endurance, switching nequency) http://www.automatics.acia.com/bilddb/index.com/bilddb/inde	
nup.//www.automation.siemens.com/bildub/index.aspx?view=searchamild=3ivi17006-0AA01-0AN2&0bjecttype=14&gndview=view1	





### Data sheet

## 3MT7006-0AA10-0AN2



3P Power Contactor AC3:6A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	7.5 W
• per pole	2.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.354 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	25 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	25 A
— at ambient temperature 60 °C rated value	19 A
• at AC-3	
— at 400 V rated value	6 A

— at 690 V rated value	4 A
operating power	
• at AC-3	
— at 400 V rated value	2.2 kW
— at 690 V rated value	3 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
● at 50 Hz	0.85 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	9 25 ms
opening delay at AC	4 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	6 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
at 220 V rated value	1 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	6 A
• at 110 V rated value	1 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 32 A
- with type of assignment 2 required	fuse gG: 25 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
mounting position	22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN FN 60715
height	74.5 mm
-	

width			45 mr	n		
depth			82 mr	82 mm		
<b>Connections/ Terminals</b>						
type of electrical conn	ection					
<ul> <li>for main current of</li> </ul>	circuit		screw	-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	screw-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (1	4 mm²), 2x (1 4 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	4 mm²), 2x (1 1.5 mm²)		
type of connectable co	onductor cross-sections	5				
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
— finely strand	led with core end process	ing	1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
• for main contacts with screw-type terminals		1.2 N	m			
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N	m			
design of the thread of the connection screw						
<ul> <li>for main contacts</li> </ul>			M3.5	M3.5		
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M3.5			
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	ם	Environmental Con- firmations		

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			on neu on

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7006-0AA10-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7006-0AA10-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA10-0AN2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7006-0AA10-0AN2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA10-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency)

MT7006-0AA10-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view





2/24/2023 🖸

### Data sheet

## 3MT7010-0AA01-0AN2



3P Power Contactor AC3:9A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	7.5 W
• per pole	2.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.354 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
<ul> <li>during storage</li> </ul>	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	25 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	25 A
— at ambient temperature 60 °C rated value	19 A
• at AC-3	
— at 400 V rated value	9 A

— at 690 V rated value	5.2 A
operating power	
• at AC-3	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
e at AC-1 maximum	600 1/b
e at AC-3 maximum	750.1/b
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	200.17
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.85 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
● at 60 Hz	0.3
closing delay at AC	925 ms
opening delay at AC	4 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
instantaneous contact	1
number of NO contacts for auxiliary contacts	
instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
e at 230 V rated value	6.4
	3 4
	2 A
	1 A
energtional ourrent at DC 42	
	6.4
• at 24 v lateu value	
at 110 V rated value	
• at 220 v rated value	TA
operational current at DC-13	
• at 24 V rated value	6 A
• at 110 V rated value	
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
Short-Circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 32 A
<ul> <li>— with type of assignment 2 required</li> </ul>	fuse gG: 25 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
mounting position	$22.5^\circ$ inclination forward and backward & $360^\circ$ rotation, in relation to normal vertical mounting plane

fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height		74.5 mm				
width		45 mi	45 mm			
depth			82 mi	n		
<b>Connections/ Terminals</b>						
type of electrical conn	ection					
<ul> <li>for main current of</li> </ul>	circuit		screw	screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	v-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (1	4 mm²), 2x (1 4 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	4 mm²), 2x (1 1.5 mm²)		
type of connectable co	onductor cross-sections	6				
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>		1x (1	1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts with screw-type terminals</li> </ul>		1.2 N	·m			
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N	·m			
design of the thread of the connection screw						
<ul> <li>for main contacts</li> </ul>			M3.5			
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5				
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

Further information	
Information on the packaging	
https://support.industry.siemens.com/cs/www/en/view/109813875	
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7010-0AA01-0AN2	
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7010-0AA01-0AN2	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0AA01-0AN2	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7010-0AA01-0AN2⟨=en	
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0AA01-0AN2/char	
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7010-0AA01-0AN2&objecttype=14&gridview=view1	





### Data sheet

## 3MT7010-0AA10-0AN2



3P Power Contactor AC3:9A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	7.5 W
• per pole	2.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.354 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	25 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	25 A
— at ambient temperature 60 °C rated value	19 A
• at AC-3	
— at 400 V rated value	9 A

— at 690 V rated value	5.2 A
operating power	
• at AC-3	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
e at AC-1 maximum	600 1/b
	750.1/b
Control circuit/ Control	
	10
control cumply voltage	AC
control supply voltage at AC	2001/
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	9 25 ms
opening delay at AC	4 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	
	3 A
• at 500 V rated value	3 A 2 A
at 500 V rated value     at 690 V rated value	3 A 2 A 1 A
at 500 V rated value     at 690 V rated value     operational current at DC-12	3 A 2 A 1 A
at 500 V rated value     at 690 V rated value     operational current at DC-12     at 24 V rated value	3 A 2 A 1 A
at 500 V rated value     at 690 V rated value     operational current at DC-12     at 24 V rated value     at 110 V rated value	3 A 2 A 1 A 6 A 3 A
at 500 V rated value     at 690 V rated value     operational current at DC-12         at 24 V rated value         at 110 V rated value         at 220 V rated value	3 A 2 A 1 A 6 A 3 A 1 A
at 500 V rated value     at 690 V rated value     operational current at DC-12     at 24 V rated value     at 110 V rated value     at 220 V rated value     operational current at DC-13	3 A 2 A 1 A 6 A 3 A 1 A
at 500 V rated value     at 690 V rated value     operational current at DC-12         at 24 V rated value         at 110 V rated value         at 220 V rated value         operational current at DC-13         at 24 V rated value	3A 2A 1A 6A 3A 1A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> </ul>	3A 2A 1A 6A 3A 1A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> </ul>	3A 2A 1A 6A 3A 1A 6A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> </ul>	3A 2A 1A 6A 3A 1A 6A 1A 0.3A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 10 V rated value</li> </ul> </li> <li>Short strong to constrain the strong to constraint the strong tot constraint the stro</li></ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
at 500 V rated value     at 690 V rated value  operational current at DC-12      at 24 V rated value     at 110 V rated value     at 220 V rated value  operational current at DC-13      at 24 V rated value     at 110 V rated value     at 220 V rated value     at 200 V rated value     at 110 V rated value     at 110 V rated value     at 600 V rated value     at 600 V rated value     at 600 V rated value	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>Short-circuit protection</li> <li>design of the fuse link</li> </ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>Short-circuit protection</li> <li>design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> </ul> </li> </ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> </ul> </li> </ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 32 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> </ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 32 A fuse gG: 25 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> </ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 32 A fuse gG: 25 A fuse gG: 10 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> </ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A 7 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> <li>mounting position <ul> <li>fastening method</li> </ul> </li> </ul>	3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A 5 A 1 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5

width		45 mm			
depth		82 mm			
<b>Connections/ Terminals</b>					
type of electrical conn	ection				
<ul> <li>for main current of</li> </ul>	circuit		screw	-type terminals	
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals	
type of connectable con	ductor cross-sections for	main contacts			
<ul> <li>solid or stranded</li> </ul>			1x (1	4 mm²), 2x (1 4 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	4 mm²), 2x (1 1.5 mm²)	
type of connectable co	onductor cross-sections	5			
<ul> <li>for auxiliary containing</li> </ul>	acts				
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)		
— finely strand	led with core end process	ing	1x (1 2.5 mm²), 2x (1 1.5 mm²)		
tightening torque					
• for main contacts with screw-type terminals		1.2 N	m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N	m		
design of the thread o	f the connection screw				
<ul> <li>for main contacts</li> </ul>			M3.5		
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M3.5		
Approvals Certificates					
General Product Ap- proval	Test Certificates	other		Environment	
CE EG-Konf	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	ם	Environmental Con- firmations	

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			on neu on

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7010-0AA10-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7010-0AA10-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0AA10-0AN2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7010-0AA10-0AN2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0AA10-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency) MT7010-0AA10-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view= &mlfh





2/24/2023 🖸

### Data sheet

## 3MT7012-0AA01-0AN2



3P Power Contactor AC3:12A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	7.5 W
• per pole	2.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.354 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	25 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	25 A
- at ambient temperature 60 °C rated value	19 A
• at AC-3	
— at 400 V rated value	12 A

— at 690 V rated value	6.7 A
operating power	
• at AC-3	
— at 400 V rated value	5.5 kW
- at 690 V rated value	5.5 kW
no load switching frequency	0.0 KW
no-load switching frequency	4 000 4 15
• at AC	1 800 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	600 1/h
at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of	
	0.05 4.4
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	80 VA
● at 60 Hz	80 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
a at 50 Hz	0.3
	0.5
	0.05 mg
closing delay at AC	9 25 ms
closing delay at AC opening delay at AC	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	9 25 ms 4 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	9 25 ms 4 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	9 25 ms 4 15 ms 1 0
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	9 25 ms 4 15 ms 1 0 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	9 25 ms 4 15 ms 1 0 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 20 V rated value         • at 20 V rated value         • at 20 V rated value         • at 600 V rated value </td <td>9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A</td>	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value<	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value<	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height		74.5 mm			
width		45 mi	45 mm		
depth			82 mi	n	
<b>Connections/ Terminals</b>	5				
type of electrical conn	ection				
<ul> <li>for main current of</li> </ul>	circuit		screw	-type terminals	
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals	
type of connectable con	nductor cross-sections for	main contacts			
<ul> <li>solid or stranded</li> </ul>			1x (1	4 mm²), 2x (1 4 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	4 mm²), 2x (1 1.5 mm²)	
type of connectable co	onductor cross-sections	6			
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)		
- finely stranded with core end processing		1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>		1.2 N	m		
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	inals	1.2 N	m	
design of the thread o	f the connection screw				
<ul> <li>for main contacts</li> </ul>	;		M3.5		
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5			
Approvals Certificates					
General Product Ap- proval	Test Certificates	other		Environment	
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations	

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7012-0AA01-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7012-0AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7012-0AA01-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7012-0AA01-0AN2&objecttype=14&gridview=view1





### Data sheet

## 3MT7012-0AA10-0AN2



3P Power Contactor AC3:12A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	7.5 W
• per pole	2.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.354 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	25 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	25 A
- at ambient temperature 60 °C rated value	19 A
• at AC-3	
- at 400 V rated value	12 A

— at 690 V rated value	6.7 A
operating power	
• at AC-3	
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
e at AC-1 maximum	600 1/b
	750 1/b
Control circuit/ Control	
type of voltage of the control output voltage	10
control cumply voltage	AC
control supply voltage at AC	200.14
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	9 25 ms
opening delay at AC	4 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 4
• at 400 V rated value	3 Δ
e at 500 V rated value	2 Δ
• at 600 V rated value	1 A
enerational current at DC 12	
e at 24 V rated value	6.4
• at 24 V fated value	2 ^
• at 110 V lated value	
operational current at DC-15	C A
• at 24 v Tated value	
• at 10 v lated value	
	0.5 A
	U.I A
Short-circuit protection	
design of the fuse link	
• tor short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 32 A
<ul> <li>— with type of assignment 2 required</li> </ul>	fuse gG: 25 A
- for obort singult protection of the subiliary subtch required	
• for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
mounting position	fuse gG: 10 A 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
fastening method	fuse gG: 10 A 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

width		45 mm			
depth		82 mm			
<b>Connections/ Terminals</b>					
type of electrical conn	ection				
<ul> <li>for main current of</li> </ul>	circuit		screw	-type terminals	
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals	
type of connectable con	ductor cross-sections for	main contacts			
<ul> <li>solid or stranded</li> </ul>			1x (1	4 mm²), 2x (1 4 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	4 mm²), 2x (1 1.5 mm²)	
type of connectable co	onductor cross-sections	5			
<ul> <li>for auxiliary containing</li> </ul>	acts				
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)		
— finely strand	led with core end process	ing	1x (1 2.5 mm²), 2x (1 1.5 mm²)		
tightening torque					
• for main contacts with screw-type terminals		1.2 N	m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N	m		
design of the thread o	f the connection screw				
<ul> <li>for main contacts</li> </ul>			M3.5		
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M3.5		
Approvals Certificates					
General Product Ap- proval	Test Certificates	other		Environment	
CE EG-Konf	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	ם	Environmental Con- firmations	

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Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7012-0AA10-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7012-0AA10-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AN2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7012-0AA10-0AN2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency)

MT7012-0AA10-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view





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### Data sheet

## 3MT7018-1AA01-0AN2



3P Power Contactor AC3:18A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA	
product designation	Power contactor	
General technical data		
size of contactor	1	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current at AC in hot operating state	9.3 W	
• per pole	3.1 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	6 kV	
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV	
protection class IP		
• on the front	IP20	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	07/01/2022	
Weight	0.373 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
during operation	-5 +55 °C	
during storage	-25 +70 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
number of poles for main current circuit	3	
number of NO contacts for main contacts	3	
operating voltage at AC-3 rated value maximum	690 V	
operational current		
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	32 A	
• at AC-1 up to 690 V		
- at ambient temperature 40 °C rated value	32 A	
- at ambient temperature 60 °C rated value	25 A	
• at AC-3		
— at 400 V rated value	18 A	

— at 690 V rated value	10.4 A
operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
e at AC 1 maximum	600 1/b
	750.1/b
	750 1/11
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
	0.0
closing delay at AC	9 25 ms
closing delay at AC	9 25 ms
closing delay at AC opening delay at AC	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts	9 25 ms 4 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	9 25 ms 4 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	9 25 ms 4 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	9 25 ms 4 15 ms 1 0
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	9 25 ms 4 15 ms 1 0 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	9 25 ms 4 15 ms 1 0 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 210 V rated value         • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> </ul>	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> </ul>	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 200 V rated value	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A 6 A 3 A 1 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>instantaneous contact</li> </ul> operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>instantaneous contact</li> </ul> operational current at AC-12 maximum         operational current at AC-15         at 230 V rated value         at 400 V rated value         at 500 V rated value         at 400 V rated value         at 20 V rated value         at 210 V rated value         at 220 V rated value         at 24 V rated value         at 220 V rated value         at 200 V rated value         at 600 V rated value         biol V rated value         biol V rated value	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value <td>9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1</td>	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	9 25 ms 4 15 ms 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 7 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height		74.5 r	74.5 mm		
width		45 mr	n		
depth		87 mr	87 mm		
<b>Connections/ Terminals</b>	3				
type of electrical conr	nection				
for main current circuit		screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>		screw	screw-type terminals		
type of connectable conductor cross-sections for main contacts					
<ul> <li>solid or stranded</li> </ul>		1x (1.5 6 mm²), 2x (1.5 6 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>		1x (1	1x (1 6 mm²), 2x (1 2.5 mm²)		
type of connectable c	onductor cross-sections	5			
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stranded		1x (1	1x (1 4 mm²), 2x (1 4 mm²)		
— finely stranded with core end processing		1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>		1.7 N·m			
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N·m			
design of the thread of the connection screw					
for main contacts		M3.5			
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5			
Approvals Certificates					
General Product Approval	Test Certificates	other		Environment	
CE	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations	

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7018-1AA01-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7018-1AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7018-1AA01-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7018-1AA01-0AN2&objecttype=14&gridview=view1

EG-Konf.





### Data sheet

## 3MT7018-1AA10-0AN2



3P Power Contactor AC3:18A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA	
product designation	Power contactor	
General technical data		
size of contactor	1	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current at AC in hot operating state	9.3 W	
• per pole	3.1 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
• of auxiliary circuit with degree of pollution 3 rated value	1 000 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	6 kV	
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV	
protection class IP		
on the front	IP20	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	07/01/2022	
Weight	0.373 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
during operation	-5 +55 °C	
during storage	-25 +70 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
number of poles for main current circuit	3	
number of NO contacts for main contacts	3	
operating voltage at AC-3 rated value maximum	690 V	
operational current		
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	32 A	
• at AC-1 up to 690 V		
- at ambient temperature 40 °C rated value	32 A	
- at ambient temperature 60 °C rated value	25 A	
• at AC-3		
— at 400 V rated value	18 A	
— at 690 V rated value	10.4 A	
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operating power		
• at AC-3		
— at 400 V rated value	7.5 kW	
— at 690 V rated value	7.5 kW	
no-load switching frequency		
• at AC	1 800 1/h	
operating frequency		
e at AC-1 maximum	600 1/b	
	750 1/b	
Control circuit/ Control	750 m	
	40	
control cumply voltage	AC	
control supply voltage at AC	220.1/	
• at 50 Hz rated value	220 V	
	220 V	
operating range factor control supply voltage rated value of magnet coil at AC		
• at 50 Hz	0.85 1.1	
• at 60 Hz	0.85 1.1	
apparent pick-up power of magnet coil at AC		
• at 50 Hz	80 VA	
e at 60 Hz	80 VA	
inductive nower factor with closing nower of the coil		
a at 50 Hz	0.75	
	0.75	
• at 00 H2	0.75	
apparent notating power of magnet coll at AC	12.1/4	
	II VA	
inductive power factor with the holding power of the coll		
• at 50 Hz	0.3	
• at 60 Hz	0.3	
closing delay at AC	9 25 ms	
opening delay at AC	4 15 ms	
Auxiliary circuit		
number of NO contacts for auxiliary contacts		
instantaneous contact	1	
operational current at AC-12 maximum	10 A	
operational current at AC-15		
<ul> <li>at 230 V rated value</li> </ul>	6 A	
<ul> <li>at 400 V rated value</li> </ul>	3 A	
<ul> <li>at 500 V rated value</li> </ul>	2 A	
• at 690 V rated value	1 A	
operational current at DC-12		
• at 24 V rated value	6 A	
• at 110 V rated value	3 A	
at 220 V rated value	1 A	
operational current at DC-13		
• at 24 V rated value	6 A	
• at 110 V rated value	1 A	
• at 220 V rated value	0.3 A	
• at 600 V rated value	0.1 A	
Short-circuit protection		
design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
— with type of coordination 1 required	fuse gG: 40 A	
— with type of assignment 2 required	fuse gG: 32 A	
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A	
mounting position	22.5° inclination forward and backward & 360° rotation. in relation to normal	
	,	
	vertical mounting plane	
fastening method	vertical mounting plane screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	

width		45 mm				
depth		87 mm				
<b>Connections/ Terminals</b>						
type of electrical conn	ection					
<ul> <li>for main current of</li> </ul>	circuit		screw	screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (1.	5 6 mm²), 2x (1.5 6 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	6 mm²), 2x (1 2.5 mm²)		
type of connectable co	onductor cross-sections	5				
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
— finely strand	led with core end process	ing	1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts with screw-type terminals</li> </ul>			1.7 N	m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N	m			
design of the thread o	f the connection screw					
<ul> <li>for main contacts</li> </ul>			M3.5			
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M3.5			
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

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Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7018-1AA10-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7018-1AA10-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA10-0AN2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7018-1AA10-0AN2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA10-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency)

MT7018-1AA10-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view &mlfh





### Data sheet

## 3MT7022-1AA01-0AN2



3P Power Contactor AC3:22A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	1
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	9.3 W
• per pole	3.1 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
of main circuit rated value	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
• on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.373 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	32 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	32 A
— at ambient temperature 60 °C rated value	25 A
• at AC-3	
— at 400 V rated value	22 A

— at 690 V rated value	12.8 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
e at AC 1 maximum	600 1/b
	750 1/b
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	200.17
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
● at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
● at 60 Hz	0.3
closing delay at AC	925 ms
opening delay at AC	4 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
instantaneous contact	1
number of NO contacts for auxiliary contacts	
e instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
e at 230 V rated value	6.4
• at 200 V rated value	2 4
	2 A
	1 A
energtional ourrent at DC 42	
operational current at DC-12	C A
• at 24 v rated value	
at 110 V rated value	
operational current at DC-13	
• at 24 v rated value	0 A
• at 110 V rated value	1 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 40 A
<ul> <li>— with type of assignment 2 required</li> </ul>	fuse gG: 32 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
mounting position	22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane

fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height		74.5 mm		
width		45 mr	n	
depth			87 mr	n
<b>Connections/ Terminals</b>	3			
type of electrical conr	nection			
<ul> <li>for main current</li> </ul>	circuit		screw	-type terminals
<ul> <li>for auxiliary and</li> </ul>	control circuit		screw	-type terminals
type of connectable cor	nductor cross-sections for	main contacts		
<ul> <li>solid or stranded</li> </ul>			1x (1.	5 6 mm²), 2x (1.5 6 mm²)
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	6 mm²), 2x (1 2.5 mm²)
type of connectable c	onductor cross-sections	5		
<ul> <li>for auxiliary contacts</li> </ul>				
— solid or stranded		1x (1	4 mm²), 2x (1 4 mm²)	
- finely stranded with core end processing		1x (1	2.5 mm²), 2x (1 1.5 mm²)	
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>		1.7 N	m	
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.2 N	m
design of the thread o	f the connection screw			
<ul> <li>for main contacts</li> </ul>	6		M3.5	
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5		
Approvals Certificates				
General Product Approval	Test Certificates	other		Environment
CE	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7022-1AA01-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7022-1AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7022-1AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7022-1AA01-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7022-1AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7022-1AA01-0AN2&objecttype=14&gridview=view1

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### Data sheet

## 3MT7022-1AA10-0AN2



3P Power Contactor AC3:22A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	1
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	9.3 W
• per pole	3.1 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.373 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	32 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	32 A
— at ambient temperature 60 °C rated value	25 A
• at AC-3	
— at 400 V rated value	22 A

— at 690 V rated value	12.8 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
e at AC-1 maximum	600 1/b
	750 1/h
Control circuit/ Control	750 m
	40
control cumply voltage	AC
control supply voltage at AC	220.1/
• at 50 Hz rated value	220 V
	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
a at 50 Hz	0.75
	0.75
annaront holding newer of magnet coil at AC	0.75
apparent noting power of magnet con at AC	12.1/4
• at 00 Tiz	
a of 50 Hz	0.2
	0.5
	0.3
	9 25 ms
	4 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
Instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
● at 230 V rated value	6 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 220 V rated value	1 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	6 A
• at 110 V rated value	1 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
• at 600 V rated value	0.1 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	fuse gG: 40 A
— with type of assignment 2 required	fuse gG: 32 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
mounting position	22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm

width		45 mm				
depth			87 mr	87 mm		
<b>Connections/ Terminals</b>						
type of electrical conn	ection					
<ul> <li>for main current of</li> </ul>	circuit		screw	screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	screw-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (1.	5 6 mm²), 2x (1.5 6 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1	6 mm²), 2x (1 2.5 mm²)		
type of connectable co	onductor cross-sections	6				
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
— finely strand	led with core end process	sing	1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts with screw-type terminals</li> </ul>			1.7 N	m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N	m			
design of the thread o	f the connection screw					
<ul> <li>for main contacts</li> </ul>			M3.5			
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M3.5			
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

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			on neu on

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7022-1AA10-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7022-1AA10-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

1AA10-0AN2 https://support.industry.siemens.com/cs/ww/en/ps/3MT7022-

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7022-1AA10-0AN2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7022-1AA10-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency)

MT7022-1AA10-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view





### Data sheet

## 3MT7025-2AA01-0AN2



3P Power Contactor AC3:25A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	10.764 W
• per pole	3.588 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.538 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	40 A
- at ambient temperature 60 °C rated value	31 A
• at AC-3	
— at 400 V rated value	25 A

— at 690 V rated value	13 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	750 1/b
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220.1/
• at 60 Hz rated value	220 \/
• at 00 Hz rated value	
magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	110 VA
• at 60 Hz	110 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	13 VA
e at 60 Hz	
inductive power factor with the holding power of the coil	
e at 50 Hz	0.3
	0.3
	12 27 me
	5 22 mg
	5 22 1115
	4
• Instantaneous contact	1
	0
Instantaneous contact	0
	10 A
operational current at AC-15	<b>A A</b>
• at 230 V rated value	6 A
at 400 v rated value	
at 500 V rated value	2A
	1A
operational current at DC-12	
at 24 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1 A
operational current at DC-13	
at 24 V rated value	6 A
at 110 V rated value	1 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 50 A
<ul> <li>— with type of assignment 2 required</li> </ul>	fuse gG: 40 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
mounting position	

fastening method	fastening method		screw	and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height			83 mi	m
width			56 mi	m
depth		95 mi	m	
<b>Connections/ Terminals</b>	;			
type of electrical conn	ection			
for main current circuit		screw	screw-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>		screw	/-type terminals	
type of connectable con	nductor cross-sections for	main contacts		
solid or stranded		1x (1.	5 10 mm²), 2x (1.5 6 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1.	5 10 mm²), 2x (1.5 4 mm²)
type of connectable co	onductor cross-sections	6		
<ul> <li>for auxiliary containing</li> </ul>	acts			
— solid or stranded		1x (1.	5 4 mm²), 2x (1.5 4 mm²)	
— finely strand	ded with core end process	sing	1x (1.5 4 mm²), 2x (1.5 4 mm²)	
tightening torque				
• for main contacts with screw-type terminals		1.85 N·m		
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	inals	1.85 N·m	
design of the thread o	f the connection screw			
<ul> <li>for main contacts</li> </ul>	;		M4	
<ul> <li>of the auxiliary and control contacts</li> </ul>		M4		
Approvals Certificates				
General Product Ap- proval	Test Certificates	other		Environment
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7025-2AA01-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7025-2AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7025-2AA01-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7025-2AA01-0AN2&objecttype=14&gridview=view1





### Data sheet

## 3MT7025-2AA10-0AN2



3P Power Contactor AC3:25A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	10.764 W
• per pole	3.588 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.538 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	40 A
— at ambient temperature 60 °C rated value	31 A
• at AC-3	
— at 400 V rated value	25 A

— at 690 V rated value	13 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 \/
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	110 VA
• at 60 Hz	110 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
annarent holding nower of magnet coil at AC	0.10
• at 50 Hz	13 \/A
• at 60 Hz	12 \/A
inductive newer factor with the holding newer of the coil	
a at 50 Hz	0.3
	0.3
	0.5
	12 27 IIIS
	5 22 1115
Auxiliary circuit	
where the state of the second state of the sec	
number of NO contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts     instantaneous contact	1
number of NO contacts for auxiliary contacts       • instantaneous contact         operational current at AC-12 maximum	1 10 A
number of NO contacts for auxiliary contacts       • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	1 10 A
number of NO contacts for auxiliary contacts       • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value	1 10 A 6 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	1 10 A 6 A 3 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	1 10 A 6 A 3 A 2 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	1 10 A 6 A 3 A 2 A 1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value	1 10 A 6 A 3 A 2 A 1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 0.3 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 20 V rated value         • at 20 V rated value         • at 20 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • for short-circuit protection of th	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 50 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • for short-circuit protection	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 50 A fuse gG: 40 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • for short-circuit protection of t	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 50 A fuse gG: 40 A fuse gG: 10 A
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • biort-circuit protection         design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         mounting position </th <td>1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 50 A fuse gG: 40 A fuse gG: 10 A 22.5° inclination forward and backward &amp; 360° rotation, in relation to normal vertical mounting plane</td>	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 50 A fuse gG: 40 A fuse gG: 10 A 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required </th <td>1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 50 A fuse gG: 40 A fuse gG: 10 A 22.5° inclination forward and backward &amp; 360° rotation, in relation to normal vertical mounting plane screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</td>	1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A fuse gG: 50 A fuse gG: 40 A fuse gG: 10 A 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

width			56 mi	n	
depth			95 mi	95 mm	
<b>Connections/ Terminals</b>	;				
type of electrical conn	ection				
<ul> <li>for main current of</li> </ul>	circuit		screw	/-type terminals	
for auxiliary and control circuit		screw	/-type terminals		
type of connectable cor	nductor cross-sections for	main contacts			
solid or stranded		1x (1.	5 10 mm²), 2x (1.5 6 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>		1x (1.	5 10 mm²), 2x (1.5 4 mm²)		
type of connectable c	onductor cross-sections	6			
<ul> <li>for auxiliary containing</li> </ul>	acts				
— solid or stra	nded		1x (1.	5 4 mm²), 2x (1.5 4 mm²)	
— finely strand	ded with core end process	sing	1x (1.	1x (1.5 4 mm <sup>2</sup> ), 2x (1.5 4 mm <sup>2</sup> )	
tightening torque					
<ul> <li>for main contacts</li> </ul>	with screw-type terminal	S	1.85 I	N·m	
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.85 N·m		
design of the thread o	f the connection screw				
<ul> <li>for main contacts</li> </ul>	;		M4		
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M4		
Approvals Certificates					
General Product Approval	Test Certificates	other		Environment	
CE	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations	

EG-Konf.

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7025-2AA10-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7025-2AA10-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

2AA10-0AN2 https://support.industry.siemens.com/cs/ww/en/ps/3MT7025

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7025-2AA10-0AN2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA10-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency)

MT7025-2AA10-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view





### Data sheet

## 3MT7032-2AA01-0AN2



3P Power Contactor AC3:32A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	15.525 W
• per pole	5.175 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.538 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	40 A
— at ambient temperature 60 °C rated value	40 A
• at AC-3	
— at 400 V rated value	32 A

— at 690 V rated value	17 A
operating power	
• at AC-3	
— at 400 V rated value	15 kW
— at 690 V rated value	15 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
• at AC-1 maximum	600 1/b
e at AC-3 maximum	600 1/b
Control circuit/ Control	
tune of voltage of the control supply voltage	40
control ourphy voltage of the control supply voltage	AC
control supply voltage at AC	200.1/
	220 V
	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
e at 50 Hz	110 \/A
• at 60 Hz	110 VA
inductive nower factor with closing nower of the coil	
a at 50 Hz	0.75
	0.75
• at 00 Hz	0.75
apparent holding power of magnet con at AC	12.1/4
	13 VA
• at our nz	IZ VA
inductive power factor with the holding power of the coll	
• at 50 Hz	0.3
	0.5
	10.07
closing delay at AC	12 27 ms
closing delay at AC opening delay at AC	12 27 ms 5 22 ms
closing delay at AC opening delay at AC control version of the switch operating mechanism	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	12 27 ms 5 22 ms Standard A1 - A2 1
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value	12 27 ms         5 22 ms         Standard A1 - A2         1         0         10 A         6 A         3 A         2 A         1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	12 27 ms         5 22 ms         Standard A1 - A2         1         0         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 2110 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value	12 27 ms         5 22 ms         Standard A1 - A2         1         0         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	12 27 ms         5 22 ms         Standard A1 - A2         1         0         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A         6 A         3 A         0 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	12 27 ms         5 22 ms         Standard A1 - A2         1         0         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 200 V rated value         • at 600 V rated value <t< td=""><td>12 27 ms         5 22 ms         Standard A1 - A2         1         0         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A</td></t<>	12 27 ms         5 22 ms         Standard A1 - A2         1         0         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 2110 V rated value         • at 220 V rated value         • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 1 0 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         <	1227 ms         522 ms         Standard A1 - A2         1         0         10A         6A         3A         2A         1A         6A         3A         2A         1A         6A         3A         1A         6A         3A         1A         6A         1A         0.3A         0.1A

			vertica	al mounting plane
fastening method			screw	and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height			83 mr	n
width			56 mr	n
depth		95 mr	n	
<b>Connections/ Terminals</b>	;			
type of electrical conn	ection			
for main current circuit		screw	-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>		screw	-type terminals	
type of connectable con	ductor cross-sections for	main contacts		
<ul> <li>solid or stranded</li> </ul>			1x (1.	5 10 mm²), 2x (1.5 6 mm²)
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1.	5 10 mm²), 2x (1.5 4 mm²)
type of connectable co	onductor cross-sections	6		
<ul> <li>for auxiliary containing</li> </ul>	acts			
— solid or stranded		1x (1.5 4 mm²), 2x (1.5 4 mm²)		
— finely strand	led with core end process	sing	1x (1.5 4 mm²), 2x (1.5 4 mm²)	
tightening torque				
<ul> <li>for main contacts</li> </ul>	with screw-type terminal	S	1.85 N·m	
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.85 N·m	
design of the thread o	f the connection screw			
for main contacts		M4		
<ul> <li>of the auxiliary and control contacts</li> </ul>		M4		
Approvals Certificates				
General Product Approval	Test Certificates	other		Environment
CE	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations

EG-Konf.

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7032-2AA01-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7032-2AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7032-2AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7032-2AA01-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7032-2AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7032-2AA01-0AN2&objecttype=14&gridview=view1





### Data sheet

## 3MT7032-2AA10-0AN2



3P Power Contactor AC3:32A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	15.525 W
• per pole	5.175 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	0.538 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	40 A
— at ambient temperature 60 °C rated value	40 A
• at AC-3	
— at 400 V rated value	32 A

— at 690 V rated value	17 A
operating power	
● at AC-3	
— at 400 V rated value	15 kW
— at 690 V rated value	15 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
• at AC-1 maximum	600 1/b
• at AC-3 maximum	600 1/b
type of voltage of the central supply voltage	10
	AC
control supply voltage at AC	222.17
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	110 VA
• at 60 Hz	110 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	13 VA
• at 60 Hz	12 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	12 27 ms
closing delay at AC opening delay at AC	12 27 ms 5 22 ms
closing delay at AC opening delay at AC control version of the switch operating mechanism	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	12 27 ms 5 22 ms Standard A1 - A2
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	12 27 ms 5 22 ms Standard A1 - A2 1 10 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC         opening delay at AC         control version of the switch operating mechanism         Auxiliary circuit         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 6 A 1 A 6 A 1 A 7 7 8 8 9 8 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 110 V rated value • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	12 27 ms 5 22 ms Standard A1 - A2 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC opening delay at AC control version of the switch operating mechanism Auxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 600 V rated value	12 27 ms 5 22 ms Standard A1 - A2 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 1 A 6 A 1 A 1 A 1 A 2 S 1 A 1 A 1 A 1 A 1 A 1 A 1 A 2 S 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A

height		83 mr	n		
width			56 mr	n	
depth			95 mr	n	
<b>Connections/ Terminals</b>					
type of electrical connection					
for main current circuit			screw	-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>			screw	v-type terminals	
type of connectable conductor cross-sections for main contacts					
solid or stranded			1x (1.	5 10 mm²), 2x (1.5 6 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>			1x (1.	5 10 mm²), 2x (1.5 4 mm²)	
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stranded			1x (1.	5 4 mm²), 2x (1.5 4 mm²)	
- finely stranded with core end processing			1x (1.	5 4 mm²), 2x (1.5 4 mm²)	
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>			1.85 1	N·m	
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>			1.85 1	N·m	
design of the thread of the connection screw					
for main contacts			M4		
<ul> <li>of the auxiliary and control contacts</li> </ul>			M4		
Approvals Certificates					
General Product Ap- proval	Test Certificates	other		Environment	
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	D	Environmental Con- firmations	

https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7032-2AA10-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7032-2AA10-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7032-2AA10-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3MT7032-2AA10-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7032-2AA10-0AN2&objecttype=14&gridview=view1

Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...)





### Data sheet

## 3MT7038-2AA01-0AN2



3P Power Contactor AC3:38A 1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA	
product designation	Power contactor	
General technical data		
size of contactor	2	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current at AC in hot operating state	15.525 W	
• per pole	5.175 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	6 kV	
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV	
protection class IP		
• on the front	IP20	
mechanical service life (operating cycles)		
of contactor typical	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	07/01/2022	
Weight	0.538 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-5 +55 °C	
during storage	-25 +70 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
number of poles for main current circuit	3	
number of NO contacts for main contacts	3	
operating voltage at AC-3 rated value maximum	690 V	
operational current		
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	50 A	
• at AC-1 up to 690 V		
- at ambient temperature 40 °C rated value	50 A	
- at ambient temperature 60 °C rated value	42 A	
• at AC-3		
— at 400 V rated value	38 A	

— at 690 V rated value	18.2 A				
operating power					
• at AC-3					
— at 400 V rated value	18.5 kW				
— at 690 V rated value	15 kW				
no-load switching frequency					
• at AC	1 800 1/h				
operating frequency					
e at AC-1 maximum	600 1/b				
e at AC-3 maximum	600 1/b				
Control circuit/ Control					
type of voltage of the control supply voltage	AC				
control supply voltage at AC	222.17				
at 50 Hz rated value	220 V				
at 60 Hz rated value	220 V				
operating range factor control supply voltage rated value of magnet coil at AC					
• at 50 Hz	0.85 1.1				
• at 60 Hz	0.85 1.1				
apparent pick-up power of magnet coil at AC					
• at 50 Hz	110 VA				
• at 60 Hz	110 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.75				
• at 60 Hz	0.75				
apparent holding power of magnet coil at AC					
• at 50 Hz	13 VA				
• at 60 Hz	12 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.3				
● at 60 Hz	0.3				
closing delay at AC	12 27 ms				
opening delay at AC	5 22 ms				
Auxiliary circuit					
number of NC contacts for auxiliary contacts					
instantaneous contact	1				
number of NO contacts for auxiliary contacts					
	0				
operational current at AC 12 maximum	10.4				
a et 220 V rated volue	6.4				
• at 250 V fated value					
	24				
• at 600 V rated value	1 A				
operational current at DC-12					
at 110 V rated value	3 A				
	IA				
operational current at DC-13					
• at 24 V rated value	6 A				
• at 110 V rated value	1 A				
at 220 V rated value	0.3 A				
at 600 V rated value	0.1 A				
Short-circuit protection					
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 63 A				
<ul> <li>— with type of assignment 2 required</li> </ul>	fuse gG: 50 A				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A				
mounting position	22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane				
fastening method			screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
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height			83 mm		
width			56 mm		
depth			95 mi	m	
Connections/ Terminals					
type of electrical connection					
<ul> <li>for main current of</li> </ul>	circuit		screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	/-type terminals	
type of connectable con	nductor cross-sections for	main contacts			
<ul> <li>solid or stranded</li> </ul>			1x (1.	5 10 mm²), 2x (1.5 6 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1.	5 10 mm²), 2x (1.5 4 mm²)	
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stra	nded		1x (1.5 4 mm²), 2x (1.5 4 mm²)		
— finely strand	ded with core end process	sing	1x (1.5 4 mm²), 2x (1.5 4 mm²)		
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>			1.85 I	N·m	
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	inals	1.85 I	N·m	
design of the thread of the connection screw					
<ul> <li>for main contacts</li> </ul>	;		M4		
<ul> <li>of the auxiliary and control contacts</li> </ul>			M4		
Approvals Certificates					
General Product Ap- proval	Test Certificates	other		Environment	
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations	

Further information
Information on the packaging
https://support.industry.stemens.com/cs/wwwen/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7038-2AA01-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7038-2AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7038-2AA01-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7038-2AA01-0AN2&objecttype=14&gridview=view1





### Data sheet

## 3MT7038-2AA10-0AN2



3P Power Contactor AC3:38A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA	
product designation	Power contactor	
General technical data		
size of contactor	2	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current at AC in hot operating state	15.525 W	
• per pole	5.175 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	6 kV	
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV	
protection class IP		
• on the front	IP20	
mechanical service life (operating cycles)		
of contactor typical	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	07/01/2022	
Weight	0.538 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-5 +55 °C	
during storage	-25 +70 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
number of poles for main current circuit	3	
number of NO contacts for main contacts	3	
operating voltage at AC-3 rated value maximum	690 V	
operational current		
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	50 A	
• at AC-1 up to 690 V		
- at ambient temperature 40 °C rated value	50 A	
- at ambient temperature 60 °C rated value	42 A	
• at AC-3		
— at 400 V rated value	38 A	

— at 690 V rated value	18.2 A
operating power	
• at AC-3	
— at 400 V rated value	18.5 kW
— at 690 V rated value	15 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
e at AC-1 maximum	600 1/b
	600 1/b
Control circuit/ Control	
type of voltage of the control output voltage	AC
control cumply voltage	AC
control supply voltage at AC	222.14
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	110 VA
• at 60 Hz	110 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	13 VA
• at 60 Hz	12 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	12 27 ms
opening delay at AC	5 22 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 4
• at 400 V rated value	3 Δ
e at 500 V rated value	2 Δ
• at 600 V rated value	1 Δ
enerational current at DC 12	
e at 24 V rated value	6 ^
• at 24 V fated value	2 ^
• at 220 V rated value	1 A
operational current at DC-13	6.4
• at 24 v Tated value	
• at 110 v lated value	
	0.5 A
	U.I A
Short-circuit protection	
design of the fuse link	
• tor short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 63 A
<ul> <li>— with type of assignment 2 required</li> </ul>	
	fuse gG: 50 A
• for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
• for short-circuit protection of the auxiliary switch required mounting position	tuse gG: 50 A fuse gG: 10 A 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
for short-circuit protection of the auxiliary switch required mounting position fastening method	tuse gG: 50 A fuse gG: 10 A 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

width			56 mm		
depth			95 mm		
Connections/ Terminals					
type of electrical connection					
for main current circuit			screw-type terminals		
<ul> <li>for auxiliary and</li> </ul>	control circuit		screw-type terminals		
type of connectable cor	nductor cross-sections for	main contacts			
<ul> <li>solid or stranded</li> </ul>			1x (1.	5 10 mm²), 2x (1.5 6 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (1.	5 10 mm²), 2x (1.5 4 mm²)	
type of connectable c	onductor cross-sections	6			
<ul> <li>for auxiliary containing</li> </ul>	acts				
— solid or stra	nded		1x (1.5 4 mm²), 2x (1.5 4 mm²)		
— finely strand	ded with core end process	sing	1x (1.5 4 mm²), 2x (1.5 4 mm²)		
tightening torque					
<ul> <li>for main contacts</li> </ul>	with screw-type terminal	S	1.85 I	N·m	
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.85 I	N·m	
design of the thread o	f the connection screw				
<ul> <li>for main contacts</li> </ul>	;		M4		
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M4		
Approvals Certificates					
General Product Approval	Test Certificates	other		Environment	
CE	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations	

EG-Konf.

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7038-2AA10-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7038-2AA10-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA10-0AN2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7038-2AA10-0AN2&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA10-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency)

MT7038-2AA10-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ens.com/bilddb/index.aspx?view





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### Data sheet

## 3MT7040-3AA11-0AN2



3P Power Contactor AC3:40A 1NO+1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	16.2 W
• per pole	5.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
• on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	1.082 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	60 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	60 A
- at ambient temperature 60 °C rated value	50 A
• at AC-3	
— at 400 V rated value	40 A

— at 690 V rated value	24 A
operating power	
• at AC-3	
— at 400 V rated value	18.5 kW
— at 690 V rated value	22 kW
no-load switching frequency	
• at AC	1 200 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	600 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
e at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 \/
enerating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
e at 50 Hz	0.75
• at 60 Hz	0.75
annaront holding nowor of magnet coil at AC	0.75
apparent holding power of magnet con at AC	22.1/4
• at our nz	STVA
inductive power factor with the holding power of the coll	0.0
• at 50 Hz	0.5
	0.3
closing delay at AC	17 29 ms
opening delay at AC	6 15 ms
Auxiliary circuit number of NC contacts for auxiliary contacts	
Auxiliary circuit number of NC contacts for auxiliary contacts  • instantaneous contact	1
Auxiliary circuit number of NC contacts for auxiliary contacts	1
Auxiliary circuit number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> </ul> <li>number of NO contacts for auxiliary contacts <ul> <li>instantaneous contact</li> </ul> </li>	1
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum	1 1 10 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	1 1 10 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value	1 1 10 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	1 1 10 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value	1 1 10 A 6 A 3 A 2 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value	1 1 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value	1 1 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 0.3 A 0.1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated	1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated v	1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated v	1         1         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A         6 A         3 A         1 A         6 A         1 A         6 A         1 A         6 A         1 A         0.1 A

fastening method			screw and snap-on mounting onto 35 mm or 75 mm standard mounting rail according to DIN EN 60715			
height			127.5 mm			
width			74.5 r	74.5 mm		
depth			113 n	ım		
<b>Connections/ Terminals</b>	· · · · · · · · · · · · · · · · · · ·					
type of electrical connection						
<ul> <li>for main current of</li> </ul>	circuit		screw	screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (2.	5 25 mm²), 2x (2.5 16 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (2.	5 25 mm²), 2x (2.5 10 mm²)		
type of connectable co	onductor cross-sections	6				
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>			1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts</li> </ul>	with screw-type terminal	S	5 N∙m			
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.2 N·m			
design of the thread o	f the connection screw					
<ul> <li>for main contacts</li> </ul>			M8			
<ul> <li>of the auxiliary and control contacts</li> </ul>			M3.5			
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7040-3AA11-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7040-3AA11-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7040-3AA11-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7040-3AA11-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7040-3AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7040-3AA11-0AN2&objecttype=14&gridview=view1





### Data sheet

## 3MT7050-3AA11-0AN2



3P Power Contactor AC3:50A 1NO+1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	22.176 W
per pole	7.392 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
• on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	1.082 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	80 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	80 A
— at ambient temperature 60 °C rated value	65 A
• at AC-3	
— at 400 V rated value	50 A

— at 690 V rated value	24 A
operating power	
• at AC-3	
— at 400 V rated value	22 kW
— at 690 V rated value	22 kW
no-load switching frequency	
• at AC	1 200 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	600 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	32 VA
• at 60 Hz	31 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	17 29 ms
opening delay at AC	6 15 ms
Auxiliary circuit	
Auxiliary circuit	
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	1
Auxiliary circuit number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> </ul>	1
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
Auxiliary circuit number of NC contacts for auxiliary contacts <ul> <li>instantaneous contact</li> </ul> <li>number of NO contacts for auxiliary contacts <ul> <li>instantaneous contact</li> </ul> </li> <li>operational current at AC-12 maximum</li>	1 1 10 A
Auxiliary circuit          number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	1 1 10 A
Auxiliary circuit          number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value	1 1 10 A 6 A
Auxiliary circuit          number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	1 1 10 A 6 A 3 A
Auxiliary circuit          number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value	1 1 10 A 6 A 3 A 2 A
Auxiliary circuit          number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value	1 1 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value	1 1 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 600 V rated value         • at 600 V rated value </td <td>1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A</td>	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 0.3 A 0.1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 0.3 A 0.1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • for short-circui	1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts         • instantaneous contact         number of NO contacts for auxiliary contacts         • instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • for short-circu	1         1         10 A         6 A         3 A         2 A         1 A         6 A         3 A         1 A         6 A         3 A         1 A         6 A         1 A         0 3 A         0.1 A

fastening method			screw and snap-on mounting onto 35 mm or 75 mm standard mounting rail according to DIN EN 60715			
height			127.5 mm			
width			74.5 r	74.5 mm		
depth			113 n	ım		
<b>Connections/ Terminals</b>	· · · · · · · · · · · · · · · · · · ·					
type of electrical connection						
<ul> <li>for main current of</li> </ul>	circuit		screw	screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (2.	5 25 mm²), 2x (2.5 16 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (2.	5 25 mm²), 2x (2.5 10 mm²)		
type of connectable co	onductor cross-sections	6				
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>			1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts</li> </ul>	with screw-type terminal	S	5 N∙m			
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.2 N·m			
design of the thread o	f the connection screw					
<ul> <li>for main contacts</li> </ul>			M8			
<ul> <li>of the auxiliary and control contacts</li> </ul>			M3.5			
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7050-3AA11-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7050-3AA11-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7050-3AA11-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7050-3AA11-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7050-3AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7050-3AA11-0AN2&objecttype=14&gridview=view1





### Data sheet

## 3MT7065-3AA11-0AN2



3P Power Contactor AC3:65A 1NO+1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	19.2 W
• per pole	6.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
on the front	IP20
mechanical service life (operating cycles)	
of contactor typical	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	1.082 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	80 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	80 A
- at ambient temperature 60 °C rated value	65 A
• at AC-3	
— at 400 V rated value	65 A

— at 690 V rated value	32 A
operating power	
• at AC-3	
— at 400 V rated value	30 kW
— at 690 V rated value	30 kW
no-load switching frequency	
e at AC	1 200 1/h
	CO0.4/h
• at AC-1 maximum	
• at AC-3 maximum	600 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	32 VA
• at 60 Hz	31 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
	***
closing delay at AC	17 29 ms
closing delay at AC	17 29 ms
closing delay at AC opening delay at AC Auxiliany circuit	17 29 ms 6 15 ms
closing delay at AC opening delay at AC Auxiliary circuit	17 29 ms 6 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts	17 29 ms 6 15 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	17 29 ms 6 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	17 29 ms 6 15 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	17 29 ms 6 15 ms 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	17 29 ms 6 15 ms 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	17 29 ms 6 15 ms 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	17 29 ms 6 15 ms 1 1 10 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	17 29 ms 6 15 ms 1 1 10 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	17 29 ms 6 15 ms 1 1 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value	17 29 ms 6 15 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value	17 29 ms 6 15 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	17 29 ms 6 15 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value	17 29 ms 6 15 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value	17 29 ms 6 15 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value	17 29 ms 6 15 ms 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	17 29 ms 6 15 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value	17 29 ms 6 15 ms 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 7 6 A 3 A 2 A 1 A 7 6 A 3 A 2 A 1 A 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value •	17 29 ms 6 15 ms 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value •	17 29 ms 6 15 ms 1 1 1 1 1 1 1 1 1 1 1 1 1

fastening method			screw and snap-on mounting onto 35 mm or 75 mm standard mounting rail according to DIN EN 60715			
height			127.5 mm			
width			74.5 r	nm		
depth			113 n	ım		
<b>Connections/ Terminals</b>	· · · · · · · · · · · · · · · · · · ·					
type of electrical conn	ection					
<ul> <li>for main current of</li> </ul>	circuit		screw	screw-type terminals		
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals		
type of connectable con	ductor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			1x (2.	5 25 mm²), 2x (2.5 16 mm²)		
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (2.	5 25 mm²), 2x (2.5 10 mm²)		
type of connectable conductor cross-sections						
• for auxiliary contacts						
— solid or stra	nded		1x (1 4 mm²), 2x (1 4 mm²)			
- finely strand	led with core end process	sing	1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts</li> </ul>	with screw-type terminal	S	5 N·m			
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.2 N·m			
design of the thread of the connection screw						
for main contacts		M8				
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M3.5			
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7065-3AA11-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7065-3AA11-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7065-3AA11-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7065-3AA11-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7065-3AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7065-3AA11-0AN2&objecttype=14&gridview=view1





1/3/2023 🖸

2/27/2025

### Data sheet

## 3MT7070-4AA11-0AN2



3P Power Contactor AC3:70A 1NO+1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	4
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	40.96875 W
• per pole	13.65625 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
• on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	1.32 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	100 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	100 A
— at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	70 A

— at 690 V rated value	32 A
operating power	
• at AC-3	
— at 400 V rated value	30 kW
— at 690 V rated value	30 kW
no-load switching frequency	
• at AC	1 200 1/h
operating frequency	
• at AC-1 maximum	600 1/b
	400 1/b
	100 1/11
control supply voltage	AC
control supply voltage at AC	2021/
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	32 VA
• at 60 Hz	31 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	17 38 ms
closing delay at AC	17 38 ms
closing delay at AC opening delay at AC Auxiliary circuit	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	17 38 ms 5 23 ms 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	17 38 ms 5 23 ms 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	17 38 ms 5 23 ms 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	17 38 ms 5 23 ms 1 1 10 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	17 38 ms 5 23 ms 1 1 10 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	17 38 ms 5 23 ms 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value	17 38 ms 5 23 ms 1 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 600 V rated value • at 200 V rated value • at 600 V rated value • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

fastening method	screw and snap-on mounting onto 35 mm or 75 mm standard mounting rail according to DIN EN 60715	
height	127.5 mm	
width	84.5 mm	
depth	121.5 mm	
Connections/ Terminals		
type of electrical connection		
<ul> <li>for main current circuit</li> </ul>	screw-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals	
type of connectable conductor cross-sections for main contacts		
<ul> <li>solid or stranded</li> </ul>	1x (4 50 mm²), 2x (4 35 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	1x (4 50 mm²), 2x (4 16 mm²)	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
— solid or stranded	1x (1 4 mm²), 2x (1 4 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	1x (1 2.5 mm²), 2x (1 1.5 mm²)	
tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	9 N·m	
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	1.2 N·m	
design of the thread of the connection screw		
<ul> <li>for main contacts</li> </ul>	M10	
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3.5	
Further information		
Information on the medication		

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7070-4AA11-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7070-4AA11-0AN2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3MT7070-4AA11-0AN2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7070-4AA11-0AN2&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7070-4AA11-0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency)

, 3MT7070-4AA11-0AN2&objecttype=14&gridview=view1 http://www.automation.siem ns.com/bilddb/index.as %mlfh





### Data sheet

## 3MT7080-4AA11-0AN2



3P Power Contactor AC3:80A 1NO+1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

65	
product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	4
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	40.96875 W
• per pole	13.65625 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
protection class IP	
• on the front	IP20
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
Weight	1.32 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	125 A
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	125 A
- at ambient temperature 60 °C rated value	93 A
• at AC-3	
— at 400 V rated value	80 A

— at 690 V rated value	47 A
operating power	
• at AC-3	
— at 400 V rated value	37 kW
— at 690 V rated value	45 kW
no-load switching frequency	
• at AC	1 200 1/h
operating frequency	
• at AC-1 maximum	600 1/b
• at AC-3 maximum	400 1/b
Control circuit/ Control	
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	200.14
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	32 VA
• at 60 Hz	31 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
	0.3
• at 00 112	0.0
closing delay at AC	17 38 mg
closing delay at AC	17 38 ms
closing delay at AC opening delay at AC	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	17 38 ms 5 23 ms 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	17 38 ms 5 23 ms 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value operational current at DC-12	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 1 1 1 A 1 1 A 1 A 1 A 1 1 1 A 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 20 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 5 6 A 3 A 1 A 5 6 7 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

fastening method			screw accor	and snap-on mounting onto 35 mm or 75 mm standard mounting rail ding to DIN EN 60715	
height			127.5	mm	
width			84.5 r	nm	
depth			121.5	mm	
<b>Connections/ Terminals</b>					
type of electrical conn	ection				
<ul> <li>for main current of</li> </ul>	circuit		screw	-type terminals	
<ul> <li>for auxiliary and of</li> </ul>	control circuit		screw	-type terminals	
type of connectable con	ductor cross-sections for	main contacts			
<ul> <li>solid or stranded</li> </ul>			1x (4	50 mm²), 2x (4 35 mm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing		1x (4	50 mm²), 2x (4 16 mm²)	
type of connectable conductor cross-sections					
• for auxiliary contacts					
— solid or stranded		1x (1 4 mm²), 2x (1 4 mm²)			
— finely strand	led with core end process	sing	1x (1 2.5 mm²), 2x (1 1.5 mm²)		
tightening torque					
<ul> <li>for main contacts</li> </ul>	with screw-type terminal	S	9 N·m		
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	inals	1.2 N·m		
design of the thread of the connection screw					
for main contacts		M10			
<ul> <li>of the auxiliary ar</li> </ul>	nd control contacts		M3.5		
Approvals Certificates					
General Product Approval	Test Certificates	other		Environment	
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations	

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7080-4AA11-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7080-4AA11-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7080-4AA11-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7080-4AA11-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7080-4AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7080-4AA11-0AN2&objecttype=14&gridview=view1





### Data sheet

## 3MT7095-4AA11-0AN2



3P Power Contactor AC3:95A 1NO+1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA		
product designation	Power contactor		
General technical data			
size of contactor	4		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current at AC in hot operating state	40.96875 W		
• per pole	13.65625 W		
insulation voltage			
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V		
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V		
surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	8 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
protection class IP			
on the front	IP20		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	3 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	07/01/2022		
Weight	1.32 kg		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-5 +55 °C		
during storage	-25 +70 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage at AC-3 rated value maximum	690 V		
operational current			
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	125 A		
• at AC-1 up to 690 V			
- at ambient temperature 40 °C rated value	125 A		
— at ambient temperature 60 °C rated value	93 A		
• at AC-3			
— at 400 V rated value	95 A		

— at 690 V rated value	47 A
operating power	
• at AC-3	
— at 400 V rated value	45 kW
— at 690 V rated value	45 kW
no-load switching frequency	
• at AC	1 200 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	400 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 \/
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	280 VA
● at 60 Hz	280 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	32 VA
e at 60 Hz	31 \/A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
	0.3
	0.5
closing delay at AC	17 38 ms
closing delay at AC	17 38 ms
closing delay at AC opening delay at AC	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts	17 38 ms 5 23 ms
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact	17 38 ms 5 23 ms 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum	17 38 ms 5 23 ms 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	17 38 ms 5 23 ms 1 1 1 10 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	17 38 ms 5 23 ms 1 1 10 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	17 38 ms 5 23 ms 1 1 10 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 10 A 6 A 3 A 2 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 110 V rated value	17 38 ms 5 23 ms 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 0 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value	17 38 ms 5 23 ms 1 1 1 1 1 1 1 1 1 1 1 1 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 600 V rated value	17 38 ms 5 23 ms 1 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
closing delay at AC opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 600 V rated value • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required mounting position	17 38 ms 5 23 ms 1 1 1 1 10 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 A 6 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

fastening method			screw accor	and snap-on mounting onto 35 mm or 75 mm standard mounting rail ding to DIN EN 60715		
height			127.5 mm			
width			84.5 mm			
depth			121.5	121.5 mm		
<b>Connections/ Terminals</b>						
type of electrical connection						
• for main current circuit			screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>			screw-type terminals			
type of connectable conductor cross-sections for main contacts						
<ul> <li>solid or stranded</li> </ul>		1x (4 50 mm²), 2x (4 35 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>		1x (4 50 mm²), 2x (4 16 mm²)				
type of connectable conductor cross-sections						
<ul> <li>for auxiliary contacts</li> </ul>						
— solid or stranded		1x (1 4 mm²), 2x (1 4 mm²)				
— finely stranded with core end processing		1x (1 2.5 mm²), 2x (1 1.5 mm²)				
tightening torque						
<ul> <li>for main contacts with screw-type terminals</li> </ul>		9 N·m				
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N·m				
design of the thread of the connection screw						
for main contacts		M10				
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5				
Approvals Certificates						
General Product Approval	Test Certificates	other		Environment		
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7095-4AA11-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7095-4AA11-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7095-4AA11-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7095-4AA11-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7095-4AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mltb=3MT7095-4AA11-0AN2&objecttype=14&gridview=view1




1/3/2023 🖸

### Data sheet

### 3MT7120-5AA00-0AN2



3P Power Contactor AC3:120A AC 220V 50/60 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	5
power loss [W] for rated value of the current at AC in hot operating state	50.4 W
• per pole	16.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
degree of pollution	3
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
protection class IP	
• on the front	IP00
• of the terminal	IP00
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	3.6 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	160 A
• at AC-3	
— at 400 V rated value	120 A
— at 690 V rated value	110 A
operating power	
• at AC-3	

	55 kW
— at 690 V rated value	100 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	00112
• at 50 Hz	0.85
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	660 VA
• at 60 Hz	660 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.45
• at 60 Hz	0.45
apparent holding power of magnet coil at AC	
• at 50 Hz	56 VA
• at 60 Hz	56 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
e at 60 Hz	0.24
	22 37 ms
	8 30 ms
number of NC contacts for auxiliary contacts	
	4
	7
design of the fuse link	
design of the fuse link	
design of the fuse link • for short-circuit protection of the main circuit with two of coordination 1 required	fuee aC: 400 A
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         with type of coordination 2 required	fuse gG: 400 A
design of the fuse link         • for short-circuit protection of the main circuit             — with type of coordination 1 required             — with type of assignment 2 required             — mounting application	fuse gG: 400 A Fuse gG: 200 A
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side
design of the fuse link         • for short-circuit protection of the main circuit             — with type of coordination 1 required             — with type of assignment 2 required             mounting position             fastening method	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing
design of the fuse link         • for short-circuit protection of the main circuit             — with type of coordination 1 required             — with type of assignment 2 required             mounting position             fastening method             height	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> )
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> )
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> )
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> ) M3.5 (Control)
design of the fuse link         • for short-circuit protection of the main circuit         with type of coordination 1 required         with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> ) M3.5 (Control)
design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts         Safety related data         product function	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> ) M3.5 (Control)
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts         Safety related data         product function         • positively driven operation according to IEC 60947-5-1	fuse gG: 400 A Fuse gG: 200 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> ) M3.5 (Control)

touch protection on the front according to IEC 60529		60529 IP00		
Approvals Certificates				
General Product Appro	val	other	Environment	
СВ	CE EG-Konf.	Confirmation	Environmental Con- firmations	

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7120-5AA00-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7120-5AA00-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7120-5AA00-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7120-5AA00-0AN2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current

https://support.industry.siemens.com/cs/wwien/ps/3MT7120-5AA00-0AN2/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7120-5AA00-0AN2&objecttype=14&gridview=view1





8/10/2023 🖸

### Data sheet

### 3MT7140-5AA00-0AN2



3P Power Contactor AC3:140A AC 220V 50/60 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	5
power loss [W] for rated value of the current at AC in hot operating state	50.4 W
• per pole	16.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
degree of pollution	3
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
protection class IP	
• on the front	IP00
of the terminal	IP00
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	3.6 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	160 A
• at AC-3	
— at 400 V rated value	140 A
— at 690 V rated value	110 A
operating power	
• at AC-3	

	75 kW
— at 690 V rated value	100 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	00112
• at 50 Hz	0.85
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	660 VA
• at 60 Hz	660 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.45
• at 60 Hz	0.45
apparent holding power of magnet coil at AC	
• at 50 Hz	56 VA
• at 60 Hz	56 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
e at 60 Hz	0.24
	22 37 ms
	8 30 ms
number of NC contacts for auxiliary contacts	
	4
Short-circuit protection	7
design of the fuse link	
design of the fuse link	
• for short circuit protection of the main circuit	
<ul> <li>for short-circuit protection of the main circuit</li> <li>with two of coordination 1 required</li> </ul>	fuero arC: 400 A
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul>	fuse gG: 400 A
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting pagition	fuse gG: 400 A Fuse gG: 250 A
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position     fastening method     height     width     depth     required spacing for grounded parts at the side     Connections/ Terminals     type of electrical connection	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         e for main current circuit         type of connectable conductor cross-sections for main contacts         e solid or stranded	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> )
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> )
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position     fastening method     height     width     depth     required spacing for grounded parts at the side     Connections/ Terminals     type of electrical connection         e for main current circuit     type of connectable conductor cross-sections for main contacts         e solid or stranded         e finely stranded with core end processing     design of the thread of the connection screw	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> )
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         e for main current circuit         type of connectable conductor cross-sections for main contacts         e solid or stranded         e finely stranded with core end processing         design of the thread of the connection screw         e of the auxiliary and control contacts	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> ) M3.5 (Control)
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         e for main current circuit         type of connectable conductor cross-sections for main contacts         e solid or stranded         e finely stranded with core end processing         design of the thread of the connection screw         e of the auxiliary and control contacts         Safety related data	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm²) 2x (35 95 mm²) M3.5 (Control)
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         e for main current circuit         type of connectable conductor cross-sections for main contacts         e solid or stranded         e finely stranded with core end processing         design of the thread of the connection screw         e of the auxiliary and control contacts         Safety related data         product function	fuse gG: 400 A Fuse gG: 250 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 150 mm 120 mm 120 mm 152 mm 10 mm Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> ) M3.5 (Control)
<ul> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>mounting position         <ul> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing for grounded parts at the side</li> </ul> </li> <li>Connections/ Terminals         <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>design of the thread of the connection screw                 <ul> <li>of the auxiliary and control contacts</li> </ul> </li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>design of the thread of the connection screw</li></ul></li></ul>	fuse gG: 400 A         Fuse gG: 250 A         22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side         screw fixing         150 mm         120 mm         152 mm         10 mm         2x (50 120 mm²)         2x (35 95 mm²)         M3.5 (Control)

touch protection on the front according to IEC 60529		60529 IP00		
Approvals Certificates				
General Product Appro	val	other	Environment	
СВ	CE EG-Konf.	<u>Confirmation</u>	Environmental Con- firmations	

F	urther information
	Information on the packaging
	https://support.industry.siemens.com/cs/ww/en/view/109813875
	Information- and Downloadcenter (Catalogs, Brochures,)
	https://www.siemens.com/ic10
	Industry Mall (Online ordering system)
	https://mail.industry.siemens.com/mail/en/en/Catalog/product?mlfb=3MT7140-5AA00-0AN2
	Cax online generator
	http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7140-5AA00-0AN2
	Service&Support (Manuals, Certificates, Characteristics, FAQs,)
	https://support.industry.siemens.com/cs/ww/en/ps/3MT7140-5AA00-0AN2
	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7140-5AA00-0AN2⟨=en
	Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7140-5AA00-0AN2/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7140-5AA00-0AN2&objecttype=14&gridview=view1





8/10/2023 🖸

### Data sheet

### 3MT7170-6AA00-0AN2



3P Power Contactor AC3:170A AC 220V 50/60 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	6
power loss [W] for rated value of the current at AC in hot operating state	68.4 W
• per pole	22.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
degree of pollution	3
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
protection class IP	
• on the front	IP00
of the terminal	IP00
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	5.6 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	210 A
• at AC-3	
— at 400 V rated value	170 A
— at 690 V rated value	170 A
operating power	
• at AC-3	

— at 400 V rated value	90 kW
— at 690 V rated value	156 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-3 maximum	700 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
<ul> <li>2 rated value</li> </ul>	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	1 080 VA
• at 60 Hz	1 080 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.38
• at 60 Hz	0.38
apparent holding power of magnet coil at AC	
• at 50 Hz	80 V/A
• at 60 Hz	80 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.27
e at 60 Hz	0.27
	25 40 ms
	10 30 ms
number of NC contacts for auxiliary contacts	
	4
Short-circuit protection	7
design of the fuse link	
e for short circuit protection of the main circuit	
with type of spording time fraguing	
- with type of coolignment 2 required	Fuen aC: 250 A
- with type of assignment 2 required	1 use yes. 200 A
	normal vertical mounting plane i.e. coil terminals always on top side
fastening method	screw fixing
height	180 mm
width	135 mm
depth	185 mm
required spacing for grounded parts at the side	10 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	
	Connection bar
type of connectable conductor cross-sections for main contacts	Connection bar
type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> </ul>	2x (50 120 mm <sup>2</sup> )
type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	Connection bar 2x (50 120 mm²) 2x (35 95 mm²)
<ul> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>design of the thread of the connection screw</li> </ul>	Connection bar 2x (50 120 mm²) 2x (35 95 mm²)
type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> <li>design of the thread of the connection screw <ul> <li>of the auxiliary and control contacts</li> </ul> </li>	Connection bar 2x (50 120 mm <sup>2</sup> ) 2x (35 95 mm <sup>2</sup> ) M3.5 (Control)
type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> <li>design of the thread of the connection screw <ul> <li>of the auxiliary and control contacts</li> </ul> </li> <li>Safety related data</li>	Connection bar 2x (50 120 mm²) 2x (35 95 mm²) M3.5 (Control)
type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> <li>design of the thread of the connection screw <ul> <li>of the auxiliary and control contacts</li> </ul> </li> <li>Safety related data <ul> <li>product function</li> </ul></li>	Connection bar 2x (50 120 mm²) 2x (35 95 mm²) M3.5 (Control)
type of connectable conductor cross-sections for main contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> <li>design of the thread of the connection screw <ul> <li>of the auxiliary and control contacts</li> </ul> </li> <li>Safety related data <ul> <li>product function</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li>	Connection bar 2x (50 120 mm²) 2x (35 95 mm²) M3.5 (Control)

touch protection on the front according to IEC 60529		60529 IP00	
Approvals Certificates			
General Product Approv	al	other	Environment
СВ	CE EG-Konf.	<u>Confirmation</u>	Environmental Con- firmations

F	Further information
	Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875
	Information- and Downloadcenter (Catalogs, Brochures,)
	Industry Mall (Online ordering system)
	https://mail.industry.siemens.com/mail/en/en/Catalog/product?mitb=3M1/170-6AA00-0AN2 Cax online generator
	http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7170-6AA00-0AN2
	https://support.industry.siemens.com/cs/ww/en/ps/3MT7170-6AA00-0AN2
	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7170-6AA00-0AN2⟨=en
	Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7170-6AA00-0AN2&objecttype=14&gridview=view1









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### Data sheet

### 3MT7205-6AA00-0AN2



3P Power Contactor AC3:205A AC 220V 50/60 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	6
power loss [W] for rated value of the current at AC in hot operating state	61.5 W
• per pole	20.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
degree of pollution	3
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
protection class IP	
on the front	IP00
<ul> <li>of the terminal</li> </ul>	IP00
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	5.7 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	220 A
• at AC-3	
— at 400 V rated value	205 A
— at 690 V rated value	170 A
operating power	
• at AC-3	

— at 400 V rated value	110 kW
— at 690 V rated value	156 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	750 1/h
• at AC-3 maximum	500 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
<ul> <li>2 rated value</li> </ul>	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	00112
• at 50 Hz	0.85
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	1 080 VA
• at 60 Hz	1 080 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.38
• at 60 Hz	0.38
apparent holding power of magnet coil at AC	
• at 50 Hz	80 V/A
• at 60 Hz	80 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.27
e at 60 Hz	0.27
	25 40 ms
	10 30 ms
number of NC contacts for auxiliary contacts	
	4
Short-circuit protection	7
design of the fuse link	
e for short circuit protection of the main circuit	
with type of spording time fraguing	
- with type of coolignment 2 required	Fuen aC: 250 A
- with type of assignment 2 required	Fuse go. 200 A
	normal vertical mounting plane i.e. coil terminals always on top side
tastening method	screw fixing
height	180 mm
width	135 mm
depth	185 mm
required spacing for grounded parts at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
type of connectable conductor cross-sections for main contacts	
solid or stranded	2x (50 120 mm²)
finely stranded with core end processing	2x (35 95 mm²)
design of the thread of the connection screw	
-	
of the auxiliary and control contacts	M3.5 (Control)
of the auxiliary and control contacts Safety related data	M3.5 (Control)
of the auxiliary and control contacts Safety related data product function	M3.5 (Control)
of the auxiliary and control contacts Safety related data product function     opsitively driven operation according to IEC 60947-5-1	M3.5 (Control)

touch protection on the front according to IEC 60529		60529 IP00	
Approvals Certificates			
General Product Approv	al	other	Environment
СВ	CE EG-Konf.	<u>Confirmation</u>	Environmental Con- firmations

F	Further information
	Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875
	Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10
	Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7205-6AA00-0AN2
	Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7205-6AA00-0AN2
	Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3MT7205-6AA00-0AN2
	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7205-6AA00-0AN2⟨=en
	Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current

mens.com/cs/ww/en/ps/3MT7 http

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7205-6AA00-0AN2&objecttype=14&gridview=view1









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### Data sheet

### 3MT7250-7AA00-0AN2



3P Power Contactor AC3:250A AC 220V 50/60 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	7
power loss [W] for rated value of the current at AC in hot operating state	101.4 W
• per pole	33.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
degree of pollution	3
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
protection class IP	
• on the front	IP00
• of the terminal	IP00
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	7.7 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	300 A
• at AC-3	
— at 400 V rated value	250 A
— at 690 V rated value	250 A
operating power	
● at AC-3	

— at 400 V rated value	132 kW
— at 690 V rated value	235 kW
no-load switching frequency	
• at AC	3 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-3 maximum	700 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
<ul> <li>2 rated value</li> </ul>	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	00112
• at 50 Hz	0.85
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	1 780 VA
• at 60 Hz	1 780 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.32
• at 60 Hz	0.32
apparent holding power of magnet coil at AC	
• at 50 Hz	122 VA
• at 60 Hz	122 V/A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.23
• at 60 Hz	0.23
	25 40 ms
	10 30 ms
number of NC contacts for auxiliary contacts	
	4
Short circuit protection	4
design of the fuse link	
e for short circuit protection of the main circuit	
with type of spording time fraguing	
- with type of coolignment 2 required	
- with type of assignment 2 required	Puse gg. 400 A
	normal vertical mounting plane i.e. coil terminals always on top side
rastening method	
	205 mm
denth	100 mm
ueput	10 mm
required spacing for grounded parts at the side	10 mm
type of electrical connection	
• tor main current circuit	Connection bar
type of connectable conductor cross-sections for main contacts	0 (70 040 3)
	2x (70 240 mm <sup>2</sup> )
	$2x(50 - 240 mm^2)$
finely stranded with core end processing	2x (50 240 mm <sup>2</sup> )
• finely stranded with core end processing     design of the thread of the connection screw	2x (50 240 mm <sup>2</sup> )
• finely stranded with core end processing     design of the thread of the connection screw     • of the auxiliary and control contacts	2x (50 240 mm <sup>2</sup> ) M3.5 (Control)
• finely stranded with core end processing     design of the thread of the connection screw         • of the auxiliary and control contacts     Safety related data	2x (50 240 mm²) M3.5 (Control)
• finely stranded with core end processing     design of the thread of the connection screw         • of the auxiliary and control contacts     Safety related data     product function	2x (50 240 mm²) M3.5 (Control)
• finely stranded with core end processing     design of the thread of the connection screw         • of the auxiliary and control contacts     Safety related data     product function         • positively driven operation according to IEC 60947-5-1	2x (50 240 mm²)         M3.5 (Control)         No

touch protection on the front according to IEC 60529		60529 IP00	)	
Approvals Certificates				
General Product Approv	al	other	Environment	
СВ	CE EG-Konf.	<u>Confirmation</u>	Environmental Con- firmations	

F	Further information
	Information on the packaging
	https://support.industry.siemens.com/cs/ww/en/view/109813875
	Information- and Downloadcenter (Catalogs, Brochures,)
	https://www.siemens.com/ic10
	Industry Mall (Online ordering system)
	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7250-7AA00-0AN2
	Cax online generator
	http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7250-7AA00-0AN2
	Service&Support (Manuals, Certificates, Characteristics, FAQs,)
	https://support.industry.siemens.com/cs/ww/en/ps/3MT7250-7AA00-0AN2
	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7250-7AA00-0AN2⟨=en
	Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
	https://eupport.industry.sigmens.com/cs/ww/en/ps/3MT7250_7A000_0AN2/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7250-7AA00-0AN2&objecttype=14&gridview=view1









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### Data sheet

### 3MT7300-7AA00-0AN2



3P Power Contactor AC3:300A AC 220V 50/60 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	7
power loss [W] for rated value of the current at AC in hot operating state	101.4 W
• per pole	33.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
degree of pollution	3
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
protection class IP	
on the front	IP00
<ul> <li>of the terminal</li> </ul>	IP00
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	7.8 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	300 A
• at AC-3	
— at 400 V rated value	300 A
— at 690 V rated value	250 A
operating power	
• at AC-3	

— at 400 V rated value	160 kW
— at 690 V rated value	235 kW
no-load switching frequency	
• at AC	3 000 1/h
operating frequency	
• at AC-1 maximum	750 1/h
• at AC-3 maximum	500 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	00112
• at 50 Hz	0.85
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	1 780 VA
• at 60 Hz	1 780 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.32
• at 60 Hz	0.32
apparent holding power of magnet coil at AC	
• at 50 Hz	122 VA
• at 60 Hz	122 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.23
e at 60 Hz	0.23
	25 40 ms
	10 30 ms
number of NC contacts for auxiliary contacts	
	4
Short-circuit protection	7
design of the fuse link	
e for short circuit protection of the main circuit	
with type of spording time fraguing	
- with type of coolignment 2 required	Fuen aC: 400 A
- with type of assignment 2 required	1 use yes. 400 A
	normal vertical mounting plane i.e. coil terminals always on top side
fastening method	screw fixing
fastening method height	screw fixing 205 mm
fastening method height width	screw fixing 205 mm 150 mm
fastening method height width depth	screw fixing 205 mm 150 mm 198 mm
fastening method height width depth required spacing for grounded parts at the side	screw fixing 205 mm 150 mm 198 mm 10 mm
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals	screw fixing 205 mm 150 mm 198 mm 10 mm
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection	screw fixing 205 mm 150 mm 198 mm 10 mm
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> )
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> )
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> )
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts         Safety related data	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)
fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts         Safety related data         product function	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)
fastening method height width depth required spacing for grounded parts at the side Connections/ Terminals type of electrical connection • for main current circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing design of the thread of the connection screw • of the auxiliary and control contacts Safety related data product function • positively driven operation according to IEC 60947-5-1	screw fixing 205 mm 150 mm 198 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)

touch protection on the front according to IEC 60529		60529 IP00	)	
Approvals Certificates				
General Product Approv	al	other	Environment	
СВ	CE EG-Konf.	<u>Confirmation</u>	Environmental Con- firmations	

Ŀ	Further information
	Information on the packaging https://support.industry.siemens.com/cs/ww/ep/view/109813875
	Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10
	Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7300-7AA00-0AN2
	Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7300-7AA00-0AN2
	Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3MT7300-7AA00-0AN2
	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7300-7AA00-0AN2⟨=en
	Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current

mens.com/cs/ww/en/ps/3MT7300-7/ http

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7300-7AA00-0AN2&objecttype=14&gridview=view1









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### Data sheet

### 3MT7400-8AA00-0AN2



3P Power Contactor AC3:400A AC 220V 50/60 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	8
power loss [W] for rated value of the current at AC in hot operating state	180 W
• per pole	60 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
degree of pollution	3
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
protection class IP	
• on the front	IP00
of the terminal	IP00
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	11.1 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	400 A
• at AC-3	
— at 400 V rated value	400 A
— at 690 V rated value	400 A
operating power	
• at AC-3	

	200 kW
— at 690 V rated value	375 kW
no-load switching frequency	
• at AC	3 000 1/h
operating frequency	
• at AC-1 maximum	700 1/h
• at AC-3 maximum	500 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 \/
• at 60 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
<ul> <li>2 rated value</li> </ul>	60 Hz
operating range factor control supply voltage rated value of	00112
	0.95
	0.85 1.1
al 00 FIZ	V.00 1.1
apparent pick-up power of magnet coll at AC	2.050.1/4
	3 050 VA
	3 UOU VA
inductive power factor with closing power of the coll	0.00
• at 50 Hz	0.23
	0.23
apparent holding power of magnet coil at AC	
• at 50 Hz	165 VA
• at 60 Hz	165 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.29
• at 60 Hz	0.29
closing delay at AC	25 40 ms
opening delay at AC	8 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
attachable	4
Short-circuit protection	
design of the fuse link	
<ul><li>design of the fuse link</li><li>for short-circuit protection of the main circuit</li></ul>	
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	fuse gG: 630 A
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul>	fuse gG: 630 A Fuse gG: 500 A
<ul> <li>design of the fuse link         <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>mounting position</li> </ul>	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         with type of coordination 1 required         with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> )
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> )
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> )
design of the fuse link         • for short-circuit protection of the main circuit         with type of coordination 1 required         with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)
design of the fuse link         • for short-circuit protection of the main circuit         with type of coordination 1 required         with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)
design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts         Safety related data         product function	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)
design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         mounting position         fastening method         height         width         depth         required spacing for grounded parts at the side         Connections/ Terminals         type of electrical connection         • for main current circuit         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         design of the thread of the connection screw         • of the auxiliary and control contacts         Safety related data         product function         • positively driven operation according to IEC 60947-5-1	fuse gG: 630 A Fuse gG: 500 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 204 mm 160 mm 222 mm 10 mm Connection bar 2x (70 240 mm <sup>2</sup> ) 2x (50 240 mm <sup>2</sup> ) M3.5 (Control)

touch protection on the front according to IEC 60529							
Approvals Certificates							
General Product Approv	al	other	Environment				
СВ	CE EG-Konf.	<u>Confirmation</u>	Environmental Con- firmations				

F	Further information
	Information on the packaging https://support.industry.siemens.com/cs/ww/ep/view/109813875
	Information- and Downloadcenter (Catalogs, Brochures,)
	https://www.siemens.com/ic10
	Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7400-8AA00-0AN2
	Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7400-8AA00-0AN2
	Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3MT7400-8AA00-0AN2
	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7400-8AA00-0AN2⟨=en
	Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
	DITDS://SUDDOIT INDUSTRY SIEMEDS.COM/CS/WW/ED/DS/3WU /4UU-XAAUU-UAN2/CDAr

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7400-8AA00-0AN2&objecttype=14&gridview=view1









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