SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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 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	
● at 230 V rated value	6 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 32 A
— with type of assignment 2 required	fuse gG: 25 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm
width	45 mm
depth	82 mm

Connections/ Terminals

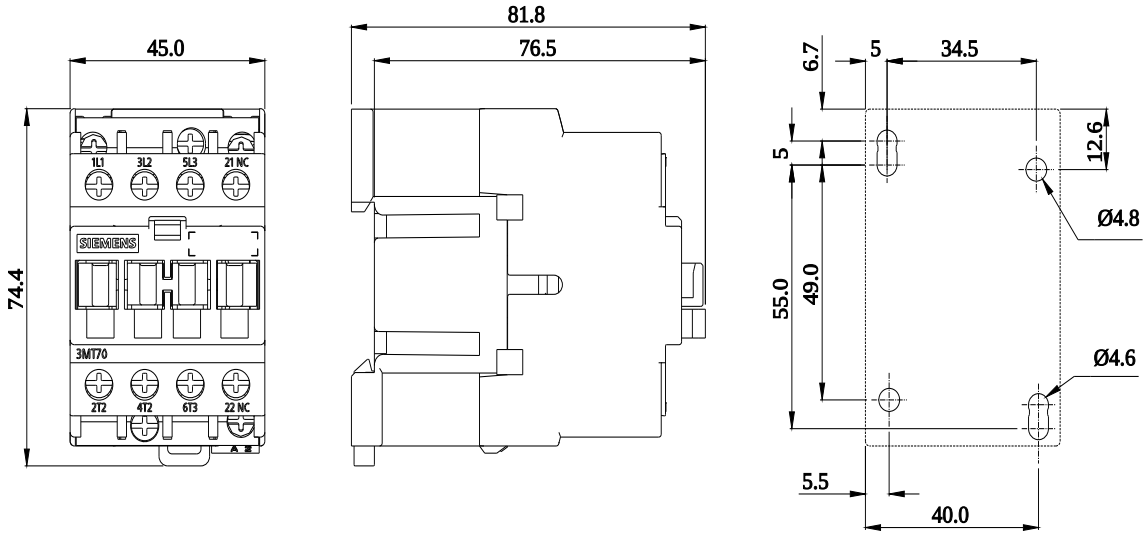
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
● finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 1.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.2 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

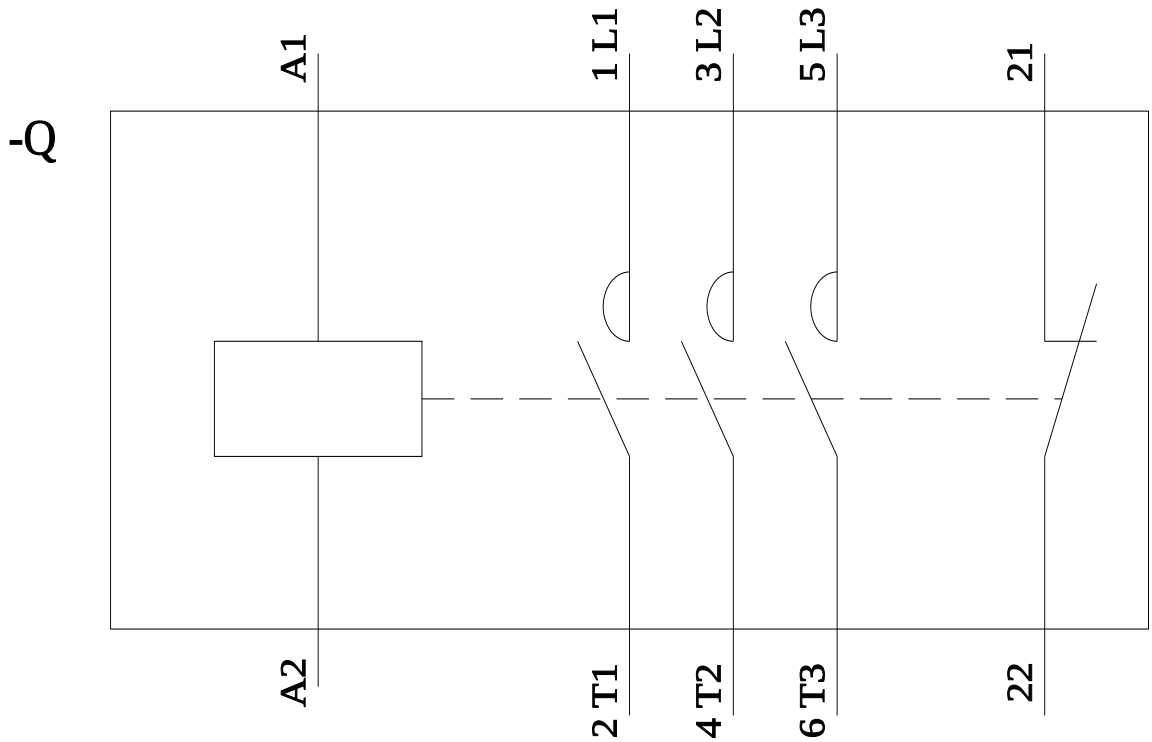
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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=3MT7006-0AA01-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7006-0AA01-0AN2
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&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7006-0AA01-0AN2&objecttype=14&gridview=view1





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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	
● 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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 32 A
— with type of assignment 2 required	fuse gG: 25 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm

width	45 mm
depth	82 mm

Connections/ Terminals

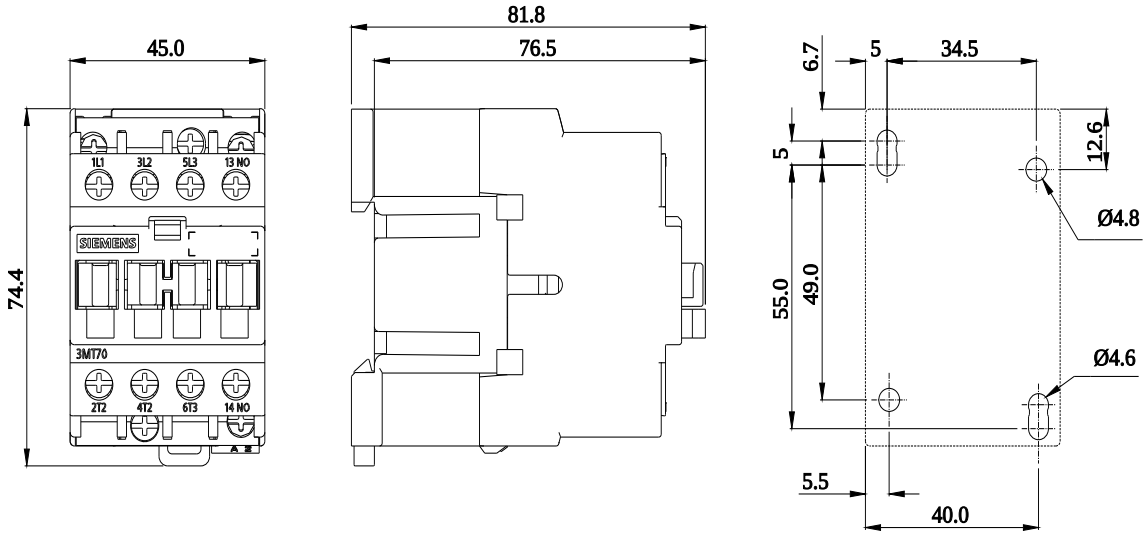
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
● finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 1.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.2 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

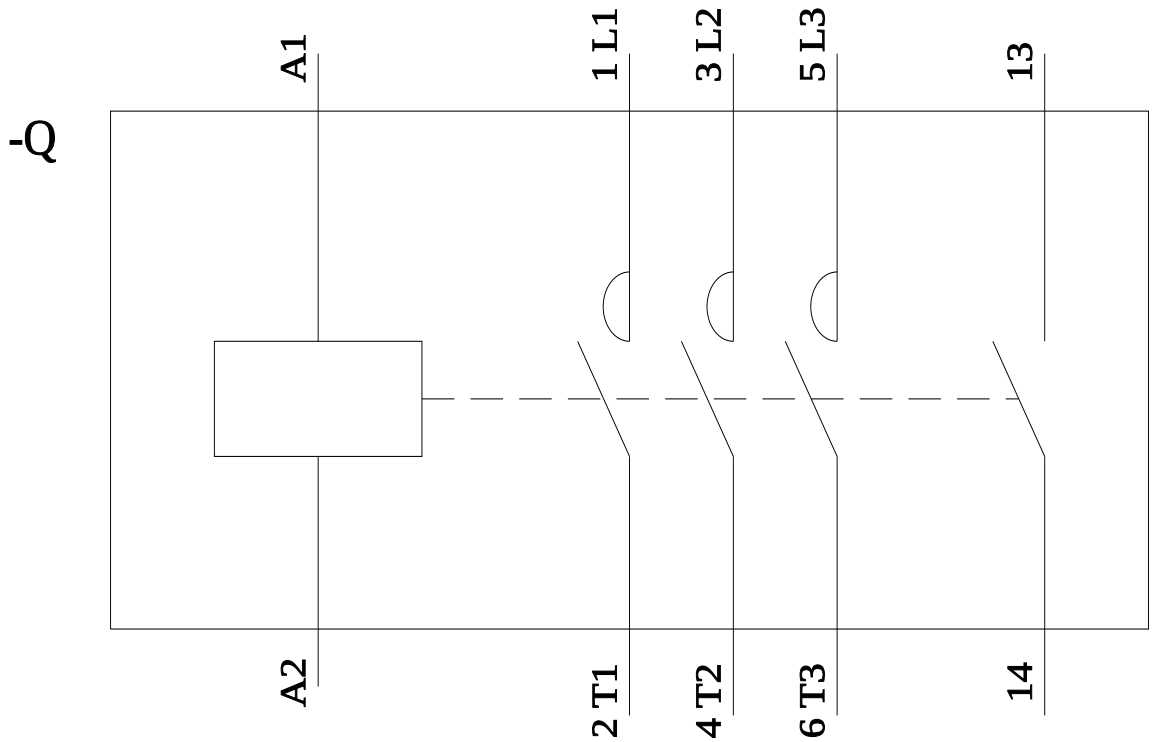
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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=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)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7006-0AA10-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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	
● 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 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	
● at 230 V rated value	6 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 32 A
— with type of assignment 2 required	fuse gG: 25 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm
width	45 mm
depth	82 mm

Connections/ Terminals

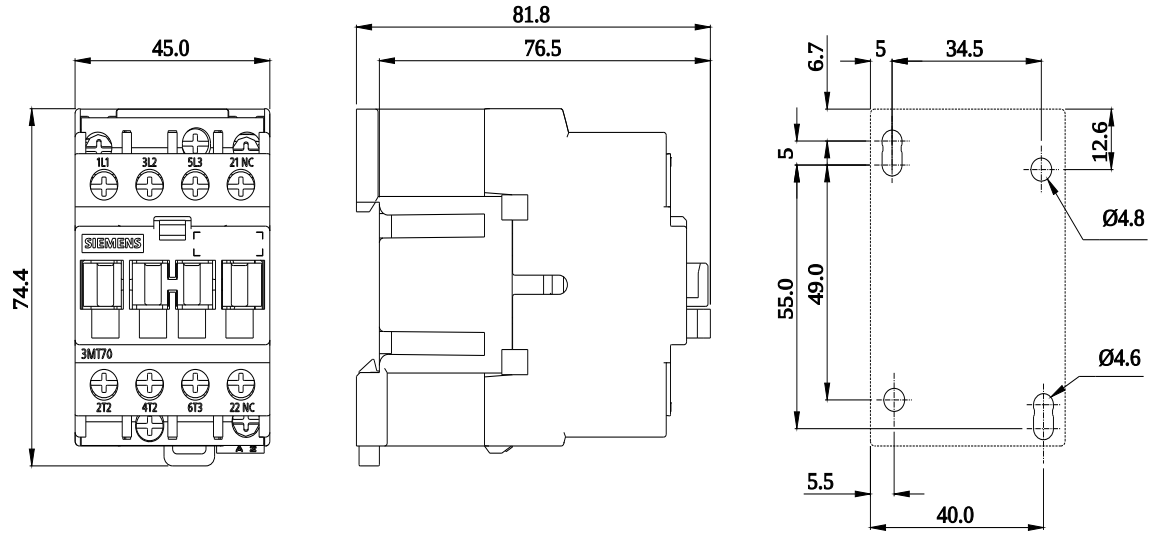
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
● finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 1.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.2 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

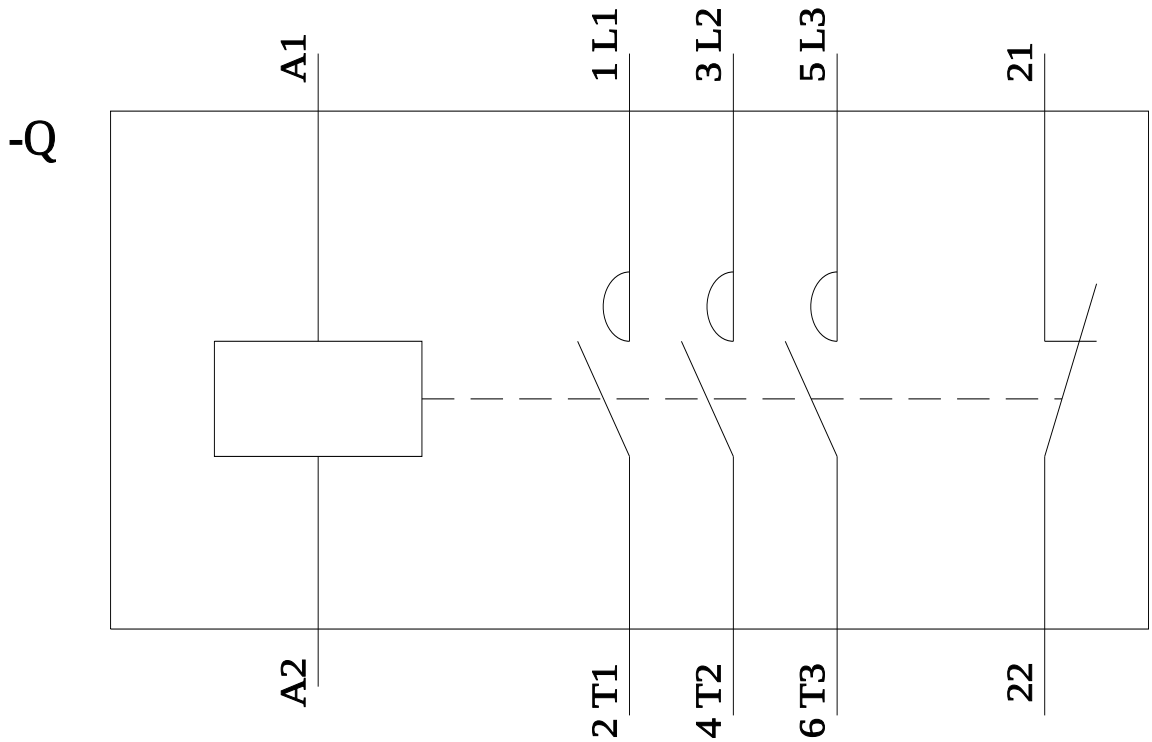
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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=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&lang=en
Characteristic: Tripping characteristics, I²t, 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





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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	
● 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	
● 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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 32 A
— with type of assignment 2 required	fuse gG: 25 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm

width	45 mm
depth	82 mm

Connections/ Terminals

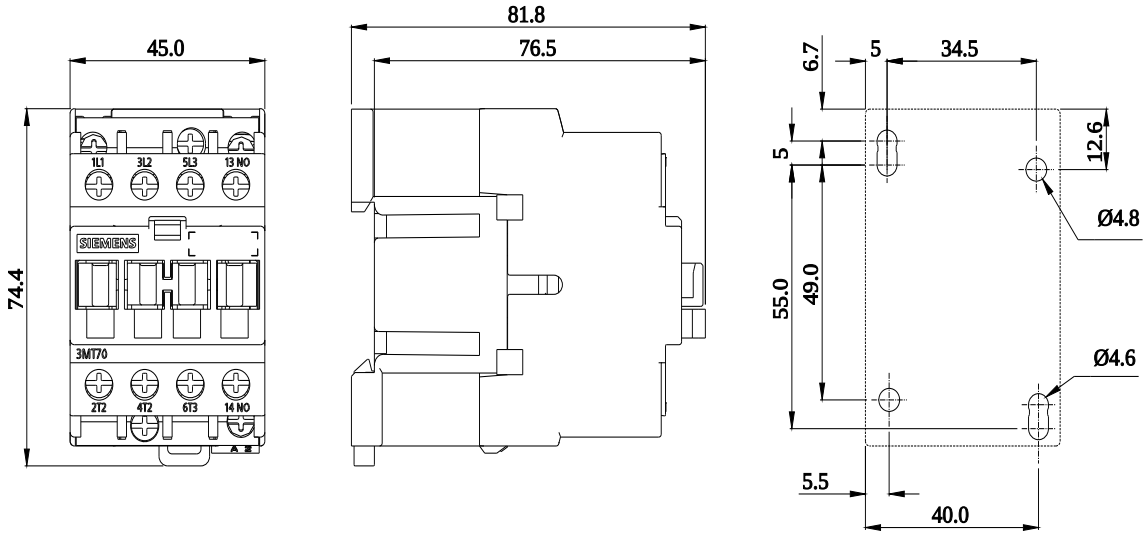
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
● finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 1.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.2 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

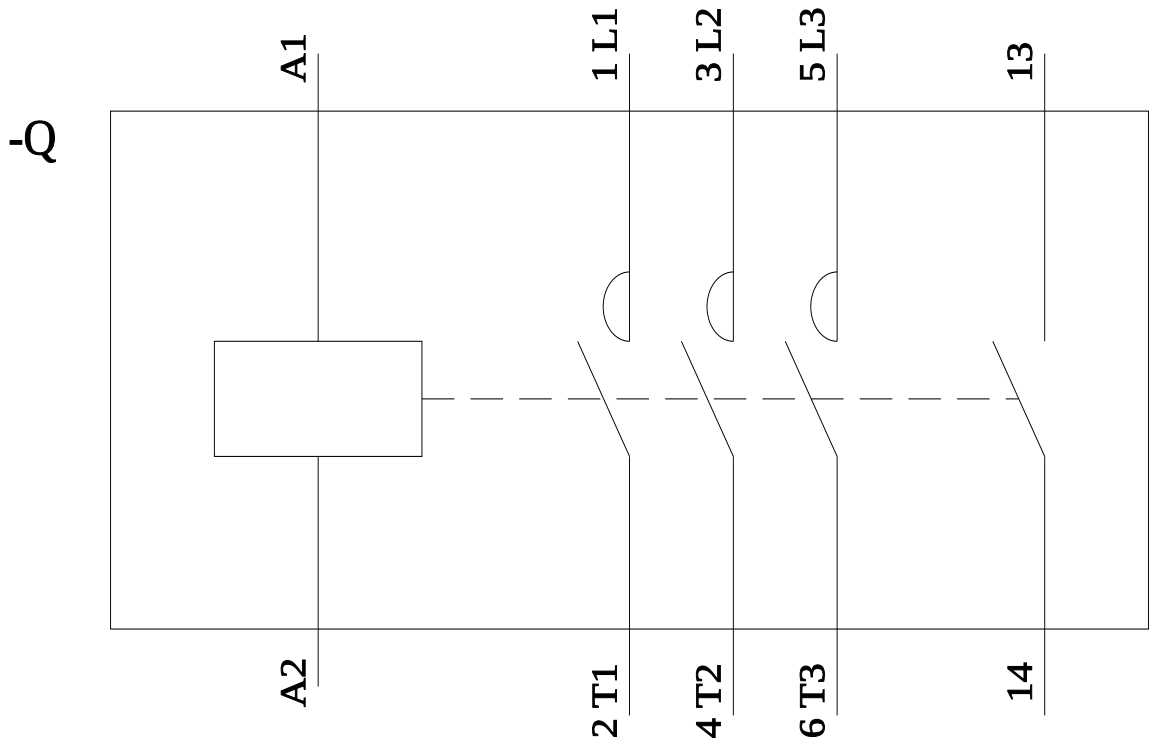
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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=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)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7010-0AA10-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	
● 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 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	
● at 230 V rated value	6 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 32 A
— with type of assignment 2 required	fuse gG: 25 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm
width	45 mm
depth	82 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
● finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 1.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.2 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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
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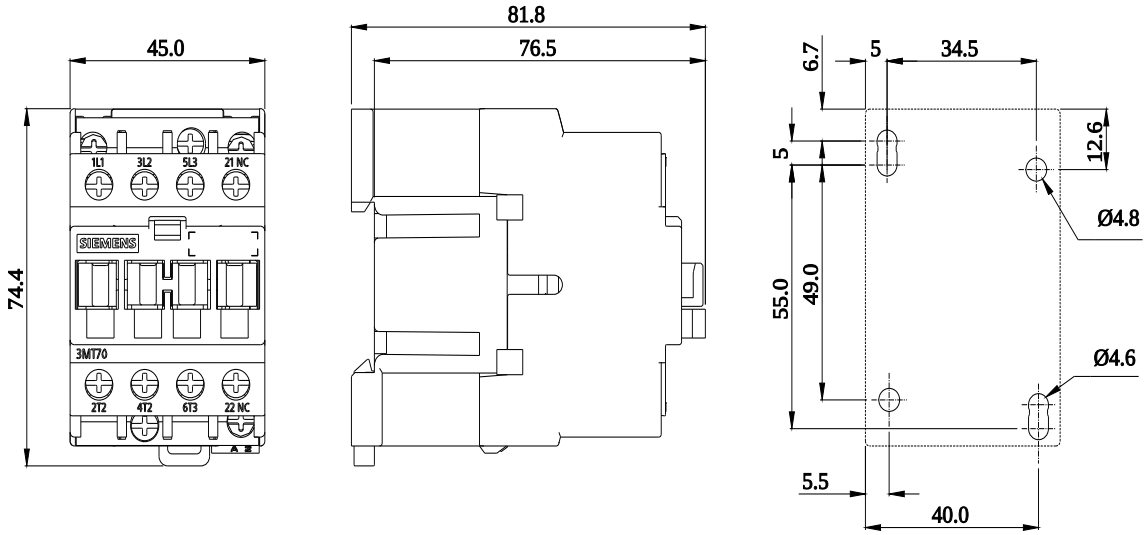
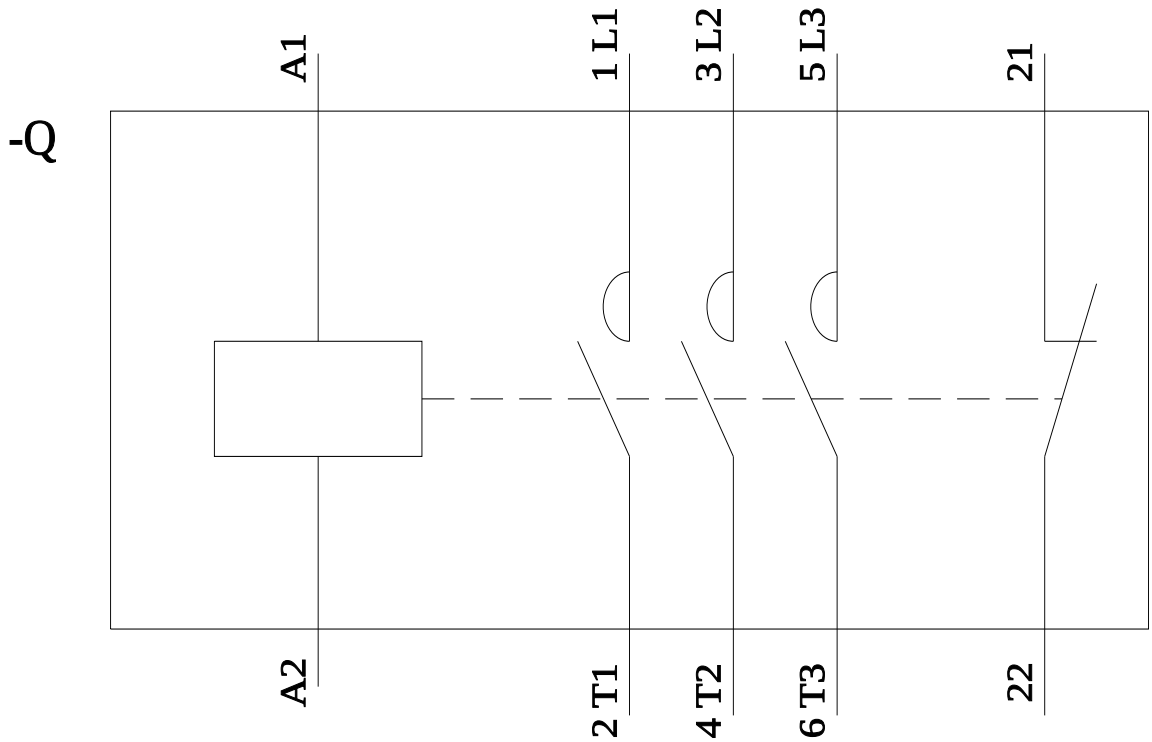
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7012-0AA01-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7012-0AA01-0AN2&objecttype=14&gridview=view1





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	
● 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	
● 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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 32 A
— with type of assignment 2 required	fuse gG: 25 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm

width	45 mm
depth	82 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
● finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 1.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.2 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
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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
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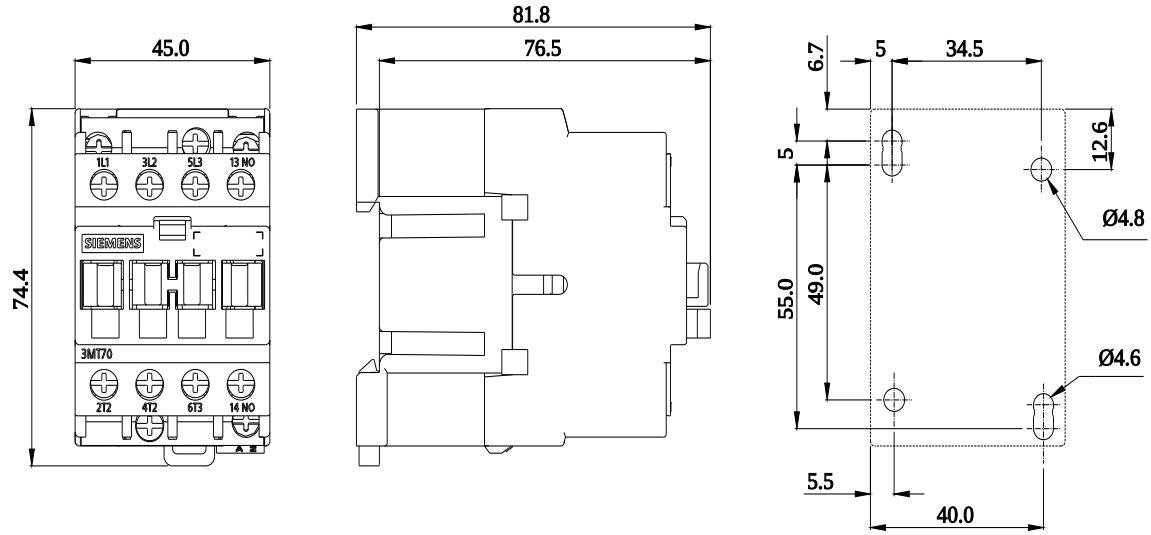
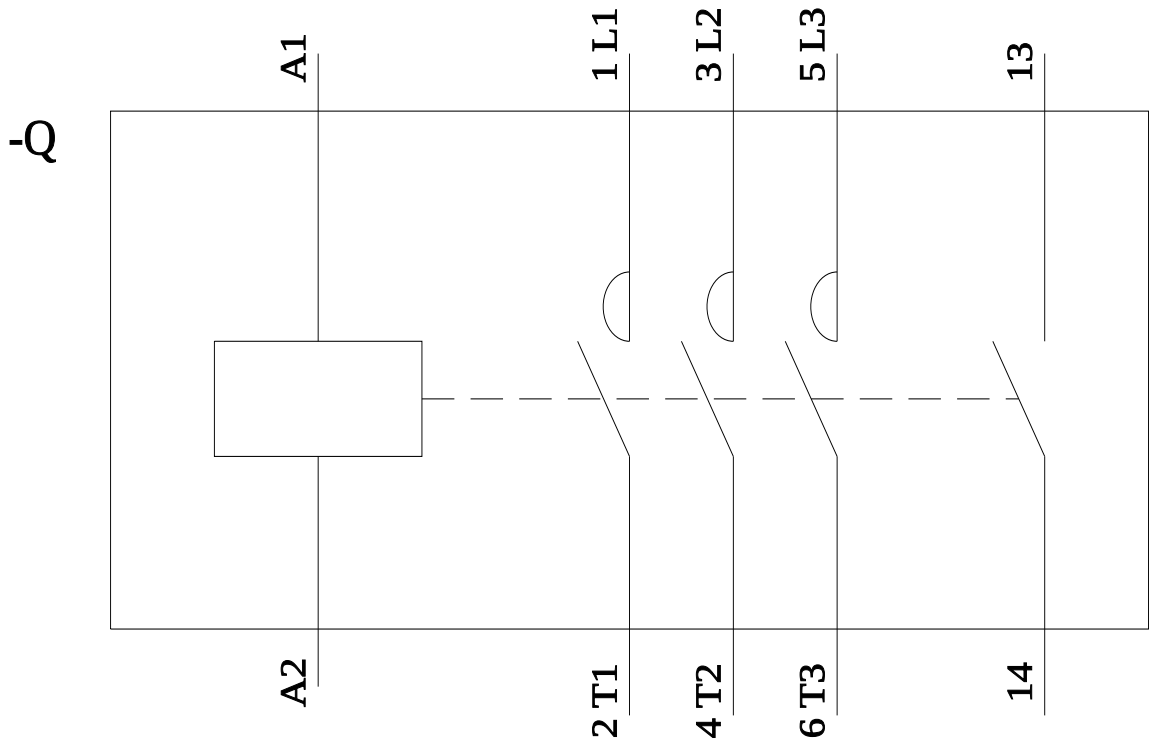
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7012-0AA10-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7012-0AA10-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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	
● 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 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	
● at 230 V rated value	6 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm
width	45 mm
depth	87 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 6 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1 ... 6 mm²), 2x (1 ... 2.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.7 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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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
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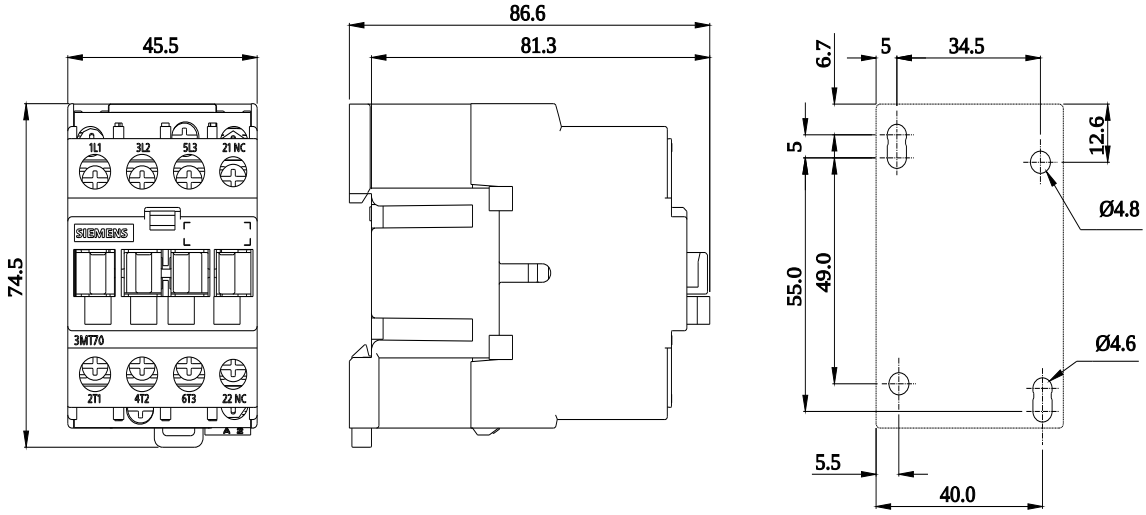
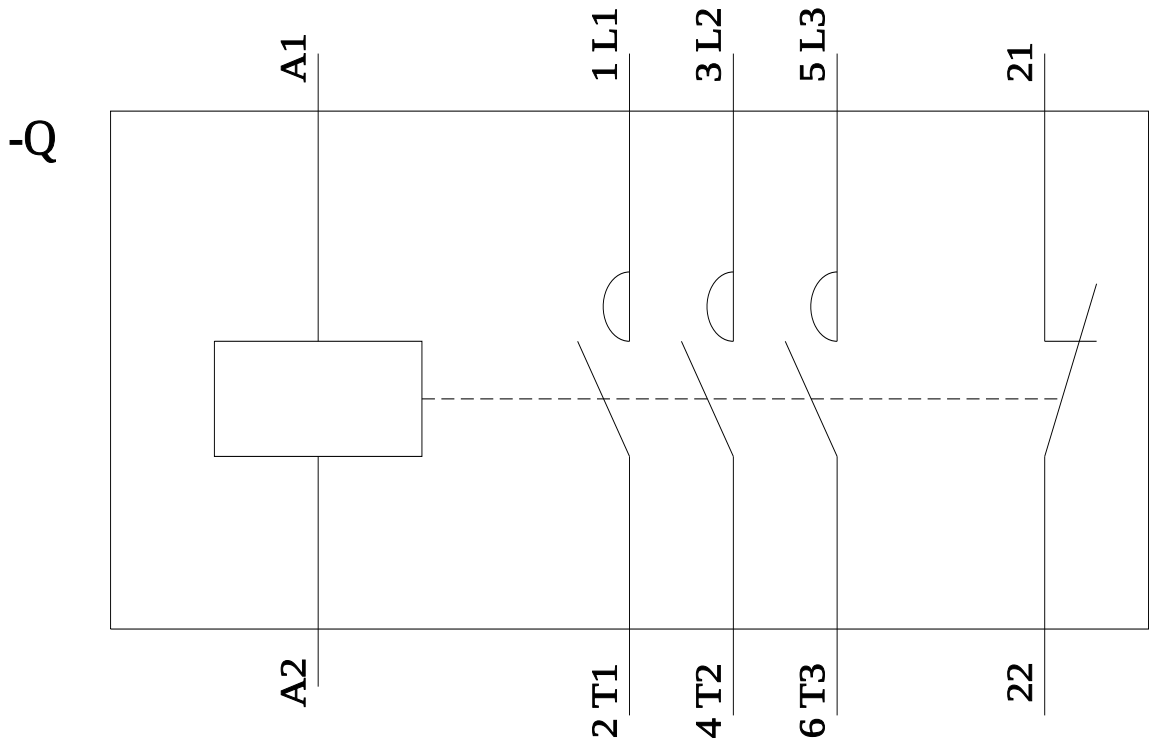
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7018-1AA01-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7018-1AA01-0AN2&objecttype=14&gridview=view1





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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	
● 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	
● 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	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	
● for short-circuit protection of the main circuit	
— 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm

width	45 mm
depth	87 mm

Connections/ Terminals

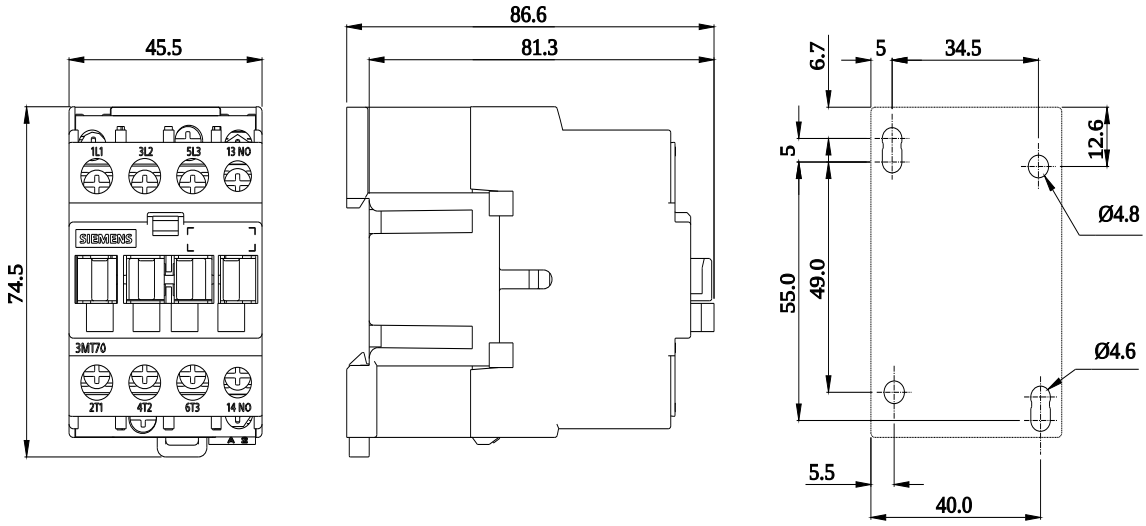
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 6 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1 ... 6 mm²), 2x (1 ... 2.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.7 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

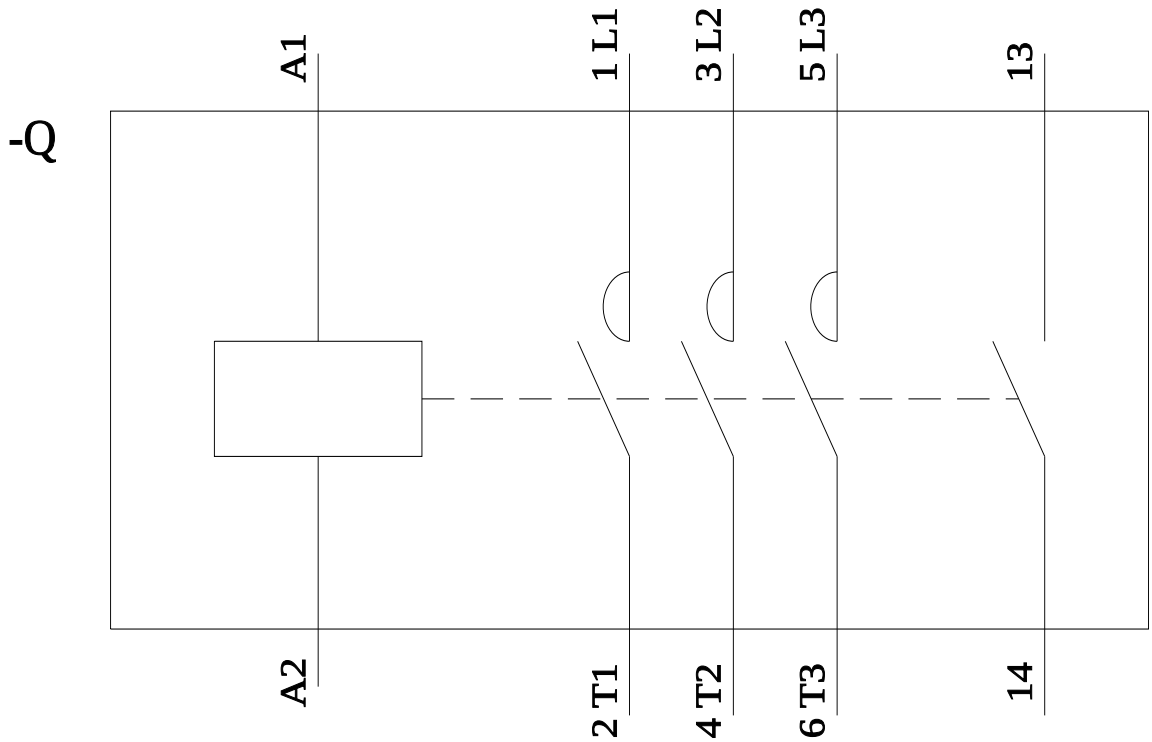
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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=3MT7018-1AA10-0AN2
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)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7018-1AA10-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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	
● 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 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	
● at 230 V rated value	6 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm
width	45 mm
depth	87 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 6 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1 ... 6 mm²), 2x (1 ... 2.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.7 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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
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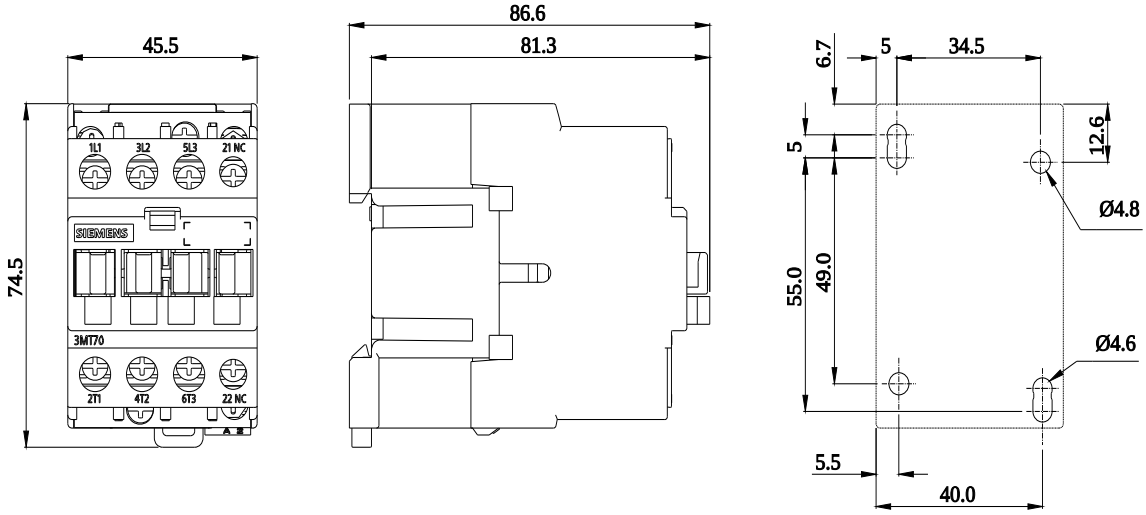
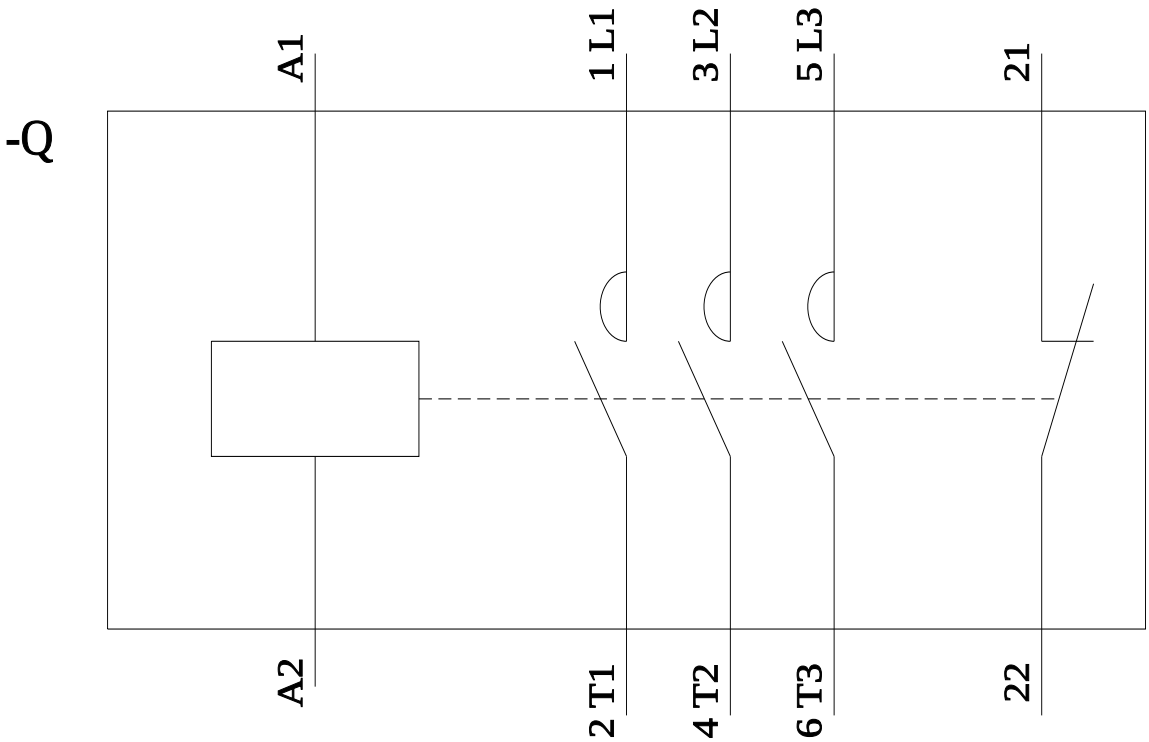
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7022-1AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7022-1AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7022-1AA01-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, 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





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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	
● 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	
● 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	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	
● for short-circuit protection of the main circuit	
— 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm

width	45 mm
depth	87 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 6 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1 ... 6 mm²), 2x (1 ... 2.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.7 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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)
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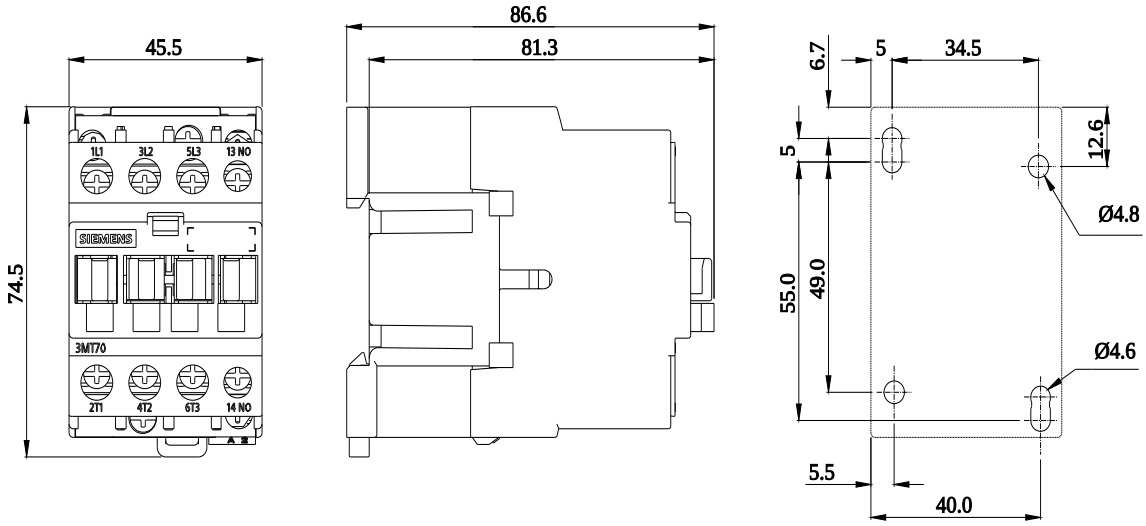
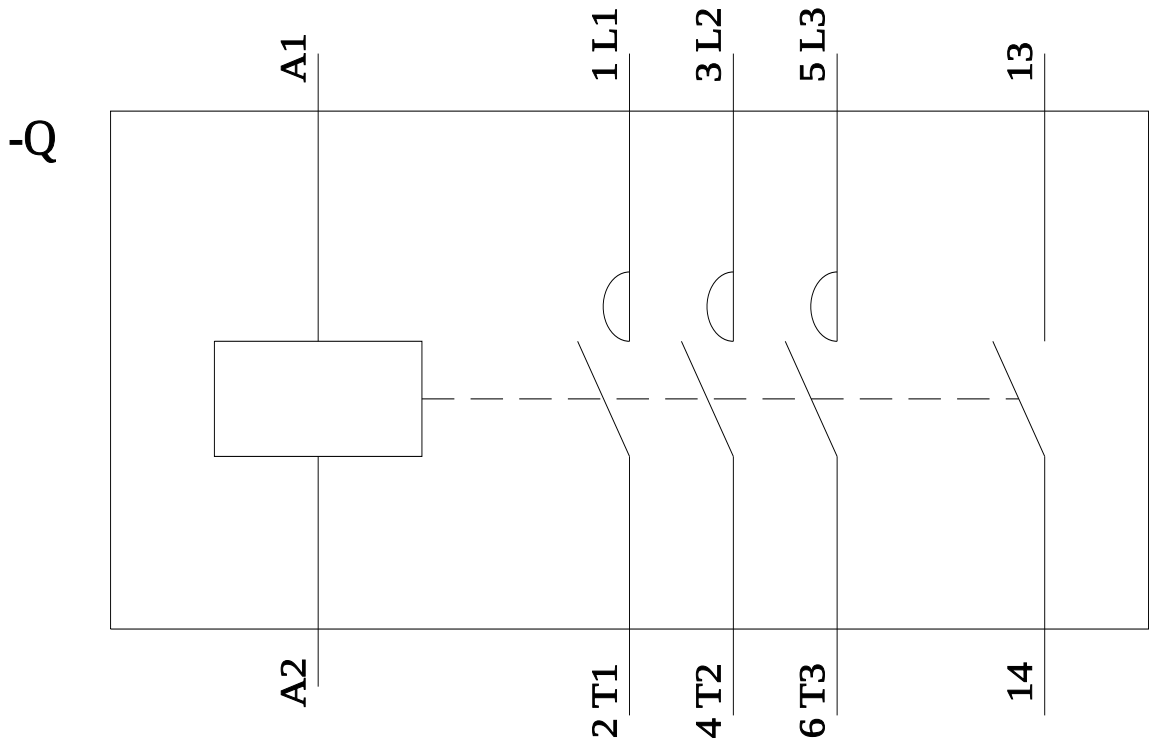
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7022-1AA10-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7022-1AA10-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=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)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7022-1AA10-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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 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	
● instantaneous contact	0
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 50 A
— with type of assignment 2 required	fuse gG: 40 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	83 mm
width	56 mm
depth	95 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 10 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1.5 ... 10 mm²), 2x (1.5 ... 4 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.85 N·m
● for auxiliary contacts with screw-type terminals	1.85 N·m
design of the thread of the connection screw	
● for main contacts	M4
● of the auxiliary and control contacts	M4

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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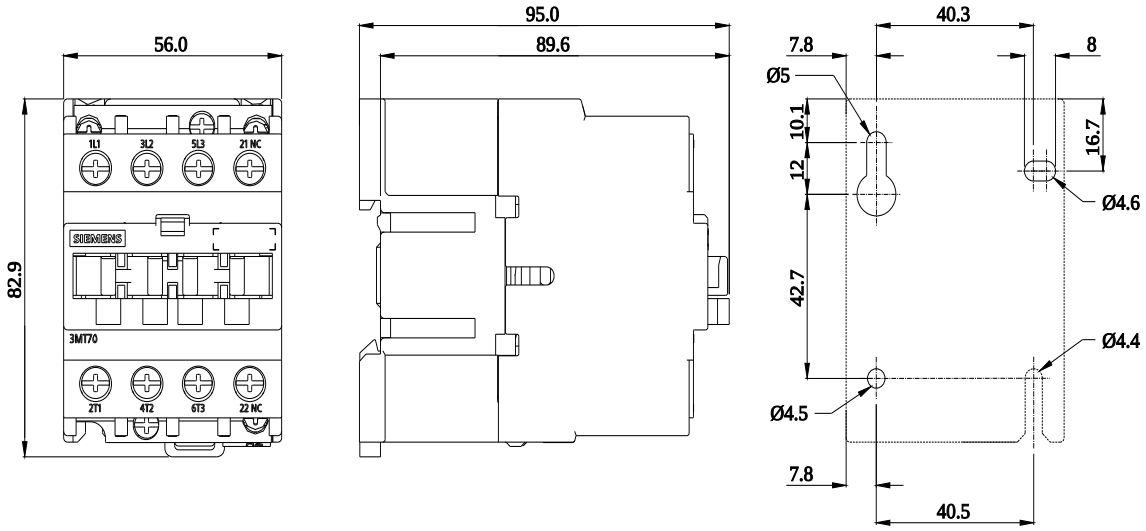
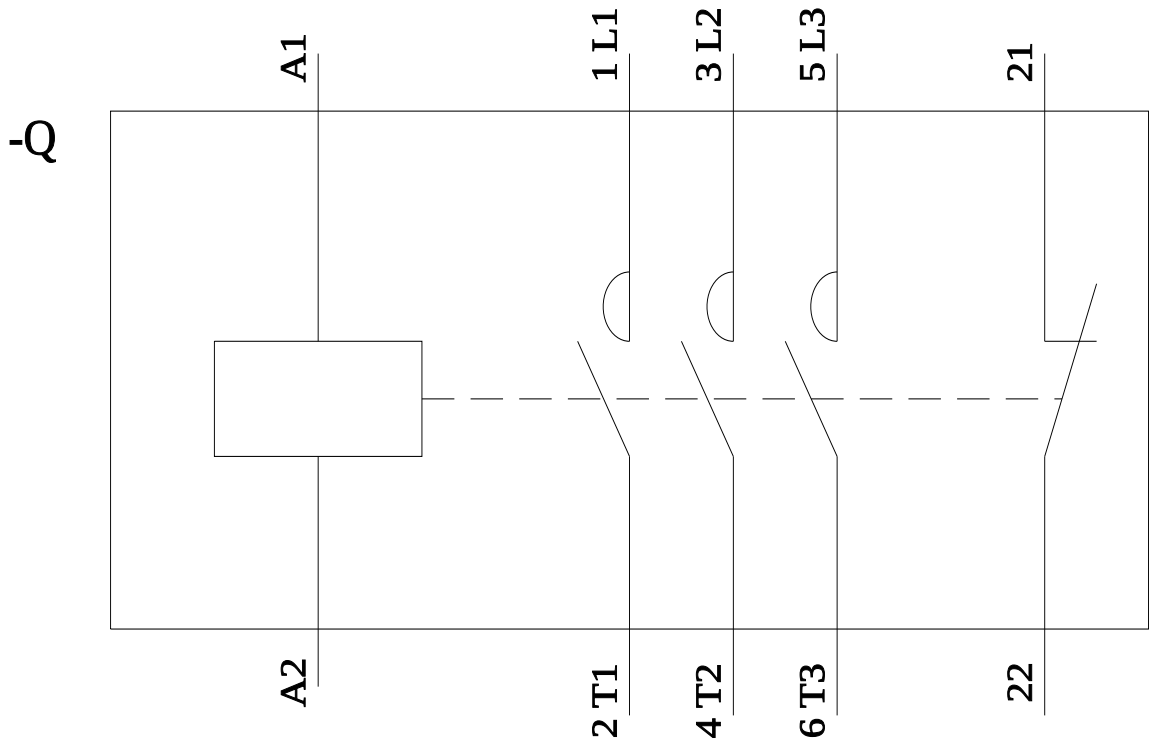
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7025-2AA01-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA01-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7025-2AA01-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, 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





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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 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 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 50 A
— with type of assignment 2 required	fuse gG: 40 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	83 mm

width	56 mm
depth	95 mm

Connections/ Terminals

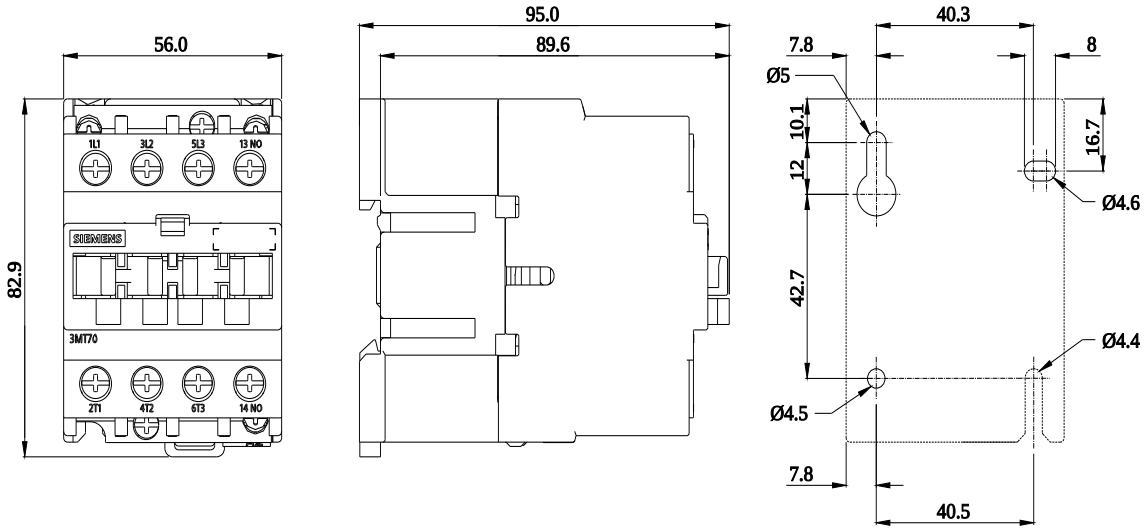
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 10 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1.5 ... 10 mm²), 2x (1.5 ... 4 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.85 N·m
● for auxiliary contacts with screw-type terminals	1.85 N·m
design of the thread of the connection screw	
● for main contacts	M4
● of the auxiliary and control contacts	M4

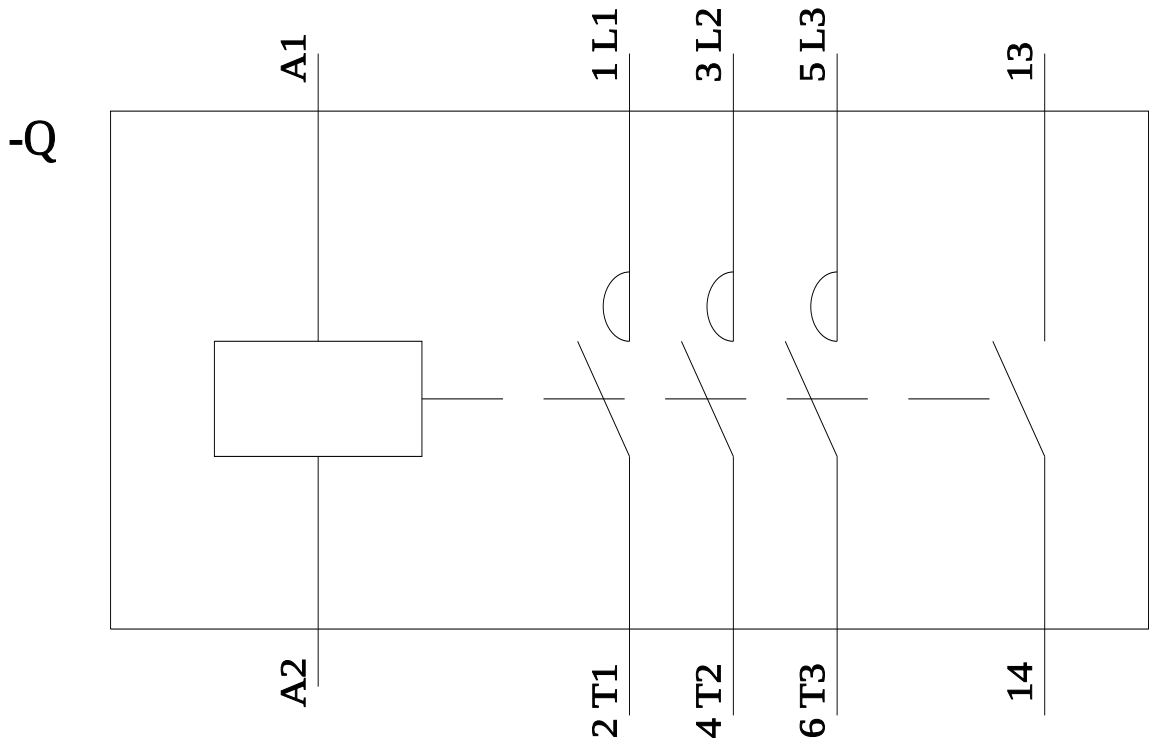
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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=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,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA10-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=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)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7025-2AA10-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

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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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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/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	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
control version of the switch operating mechanism	Standard A1 - A2
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	
● at 230 V rated value	6 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 50 A
— with type of assignment 2 required	fuse gG: 40 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	83 mm
width	56 mm
depth	95 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 10 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1.5 ... 10 mm²), 2x (1.5 ... 4 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.85 N·m
● for auxiliary contacts with screw-type terminals	1.85 N·m
design of the thread of the connection screw	
● for main contacts	M4
● of the auxiliary and control contacts	M4

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
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Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7032-2AA01-0AN2
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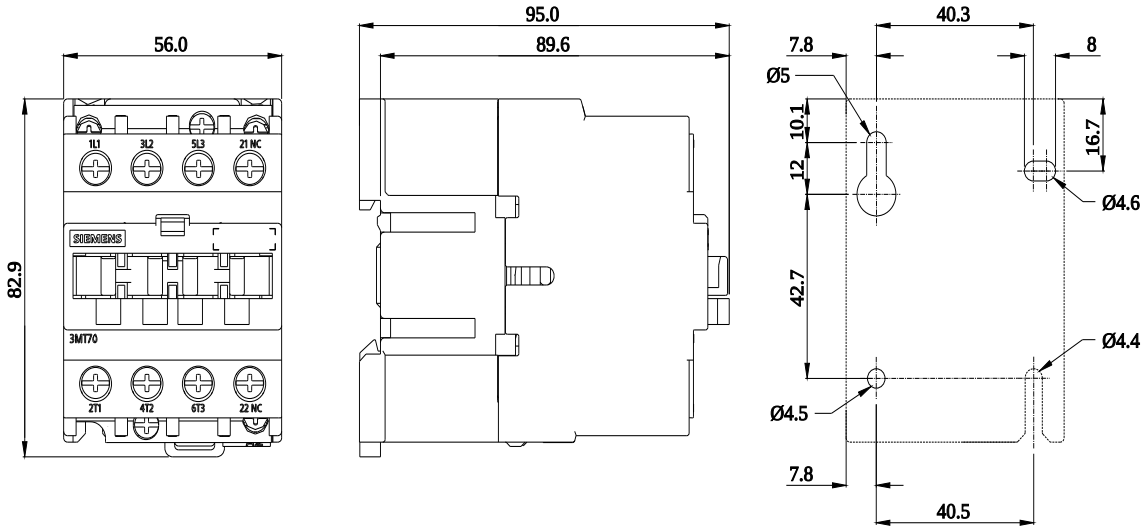
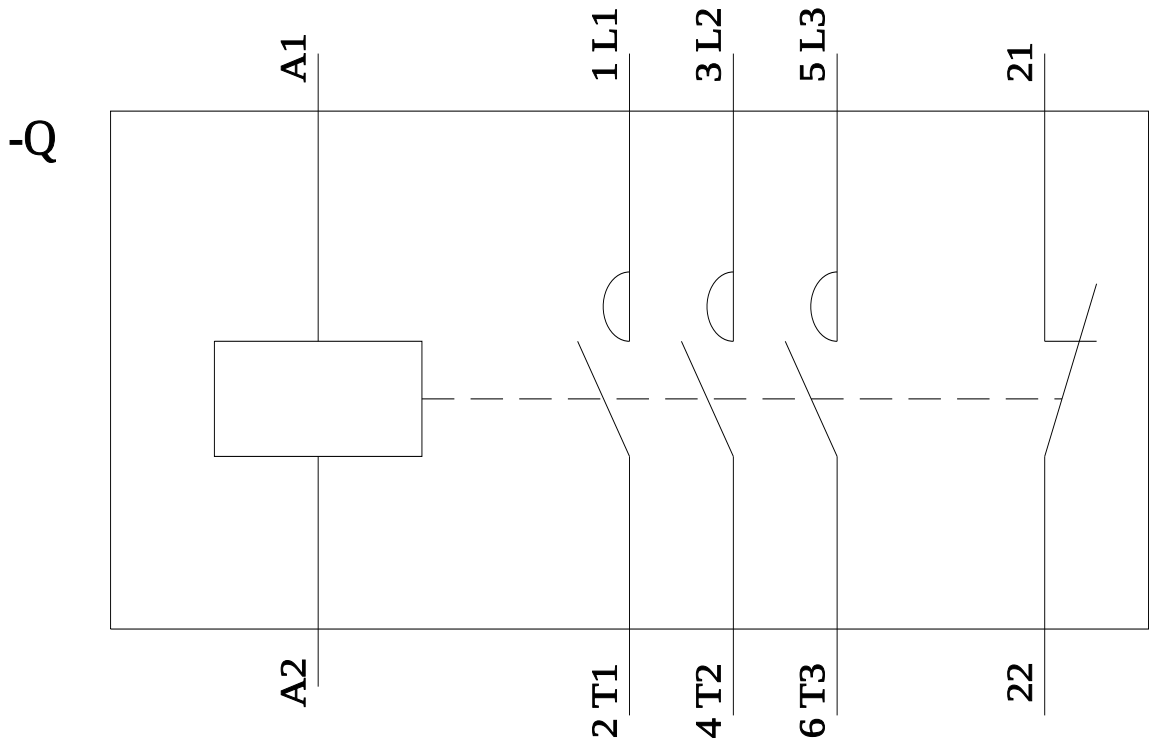
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7032-2AA01-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7032-2AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7032-2AA01-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

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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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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/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	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
control version of the switch operating mechanism	Standard A1 - A2
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 50 A
— with type of assignment 2 required	fuse gG: 40 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

height	83 mm
width	56 mm
depth	95 mm

Connections/ Terminals	
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 10 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1.5 ... 10 mm²), 2x (1.5 ... 4 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.85 N·m
● for auxiliary contacts with screw-type terminals	1.85 N·m
design of the thread of the connection screw	
● for main contacts	M4
● of the auxiliary and control contacts	M4

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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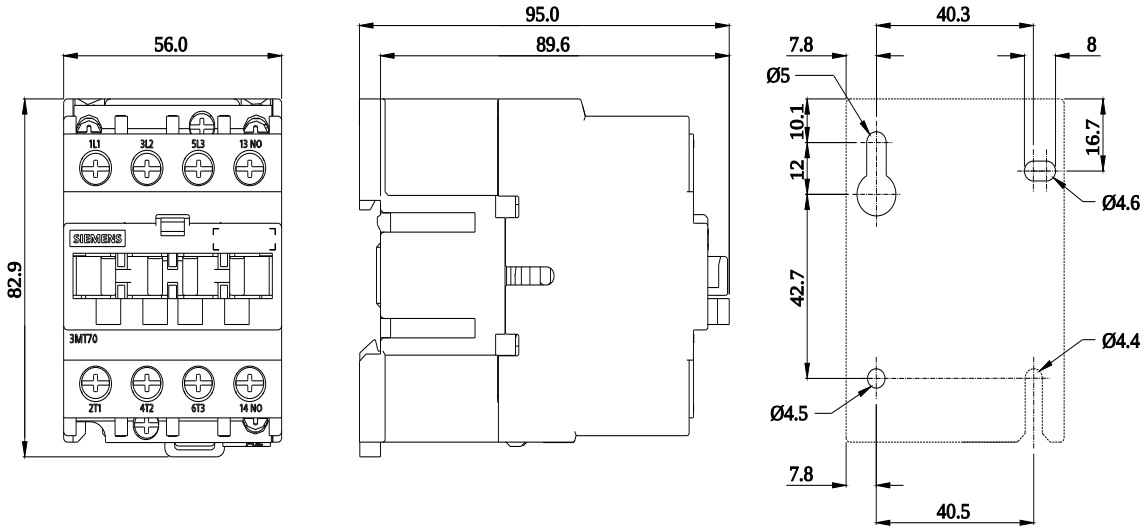
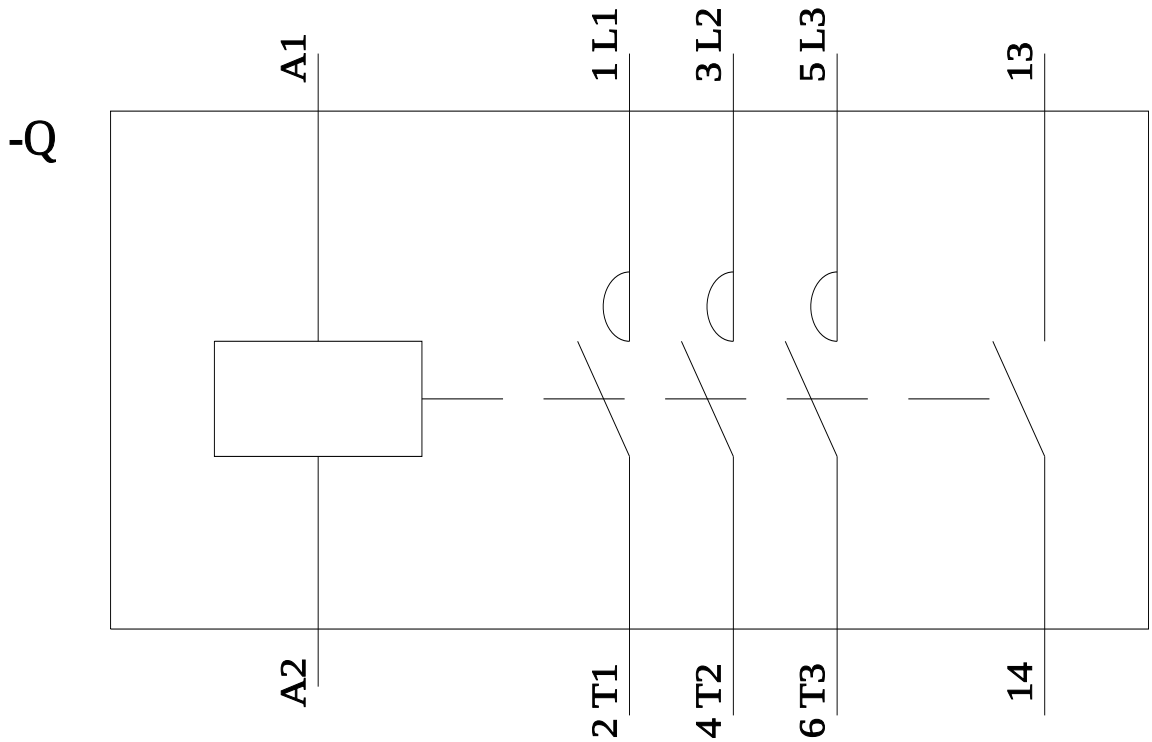
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7032-2AA10-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7032-2AA10-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7032-2AA10-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, 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





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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	
● 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	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	
● instantaneous contact	0
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 63 A
— with type of assignment 2 required	fuse gG: 50 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	83 mm
width	56 mm
depth	95 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 10 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1.5 ... 10 mm²), 2x (1.5 ... 4 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.85 N·m
● for auxiliary contacts with screw-type terminals	1.85 N·m
design of the thread of the connection screw	
● for main contacts	M4
● of the auxiliary and control contacts	M4

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
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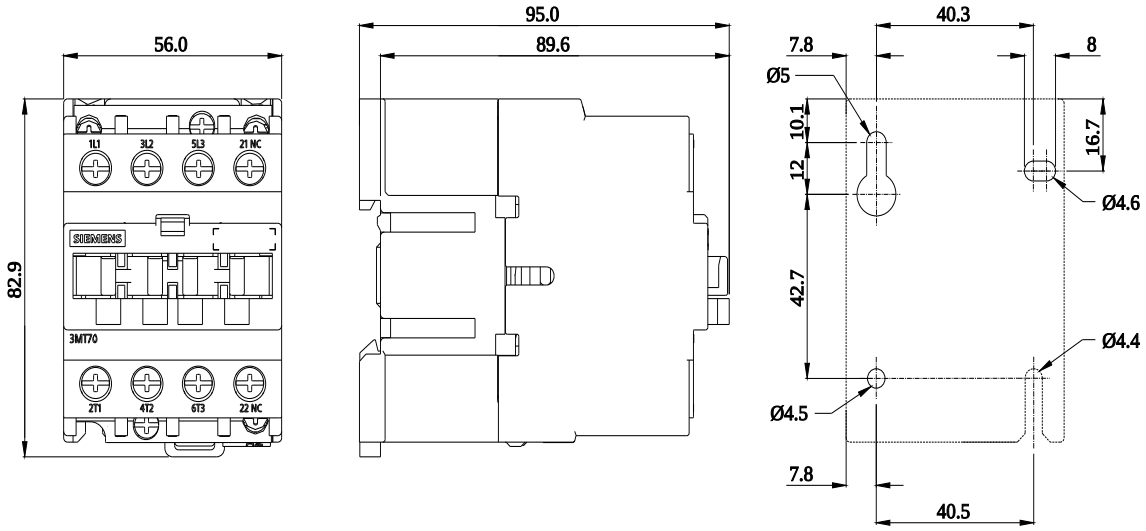
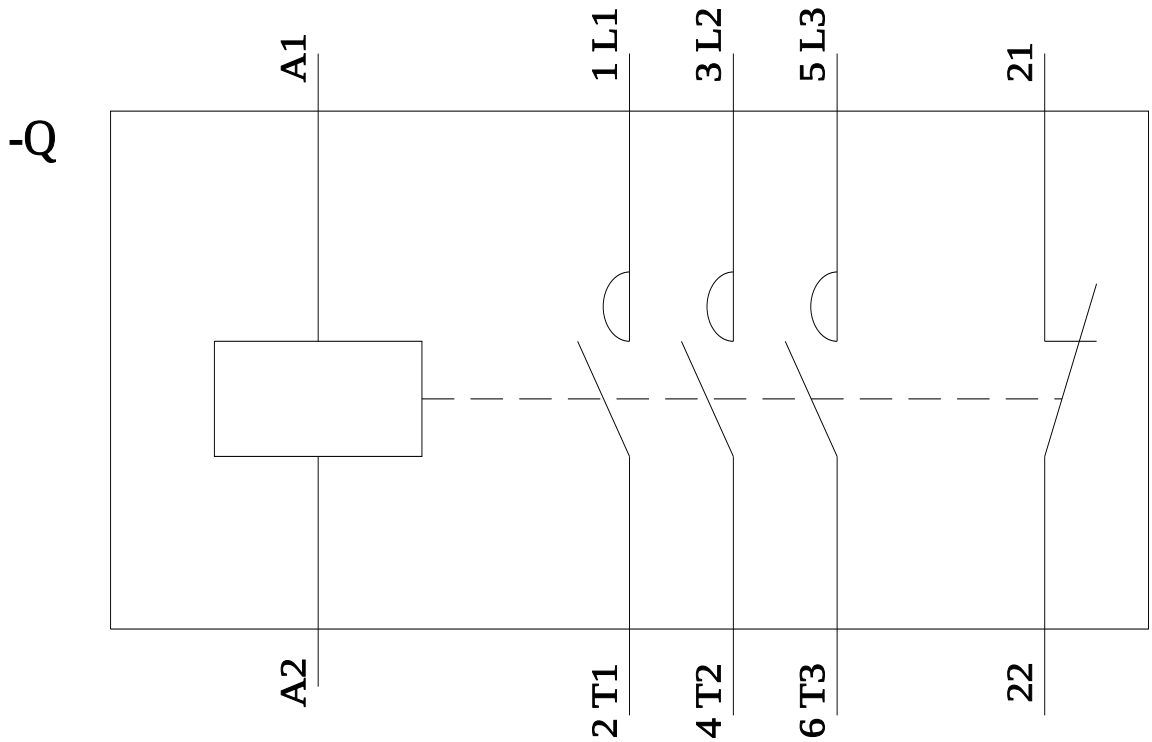
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA01-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7038-2AA01-0AN2&objecttype=14&gridview=view1





last modified: 1/3/2023

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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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	6 kV
● of auxiliary circuit rated value	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	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	
● 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	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 A
● at 400 V rated value	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
● 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 63 A
— with type of assignment 2 required	fuse gG: 50 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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	83 mm

width	56 mm
depth	95 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1.5 ... 10 mm²), 2x (1.5 ... 6 mm²)
● finely stranded with core end processing	1x (1.5 ... 10 mm²), 2x (1.5 ... 4 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	1.85 N·m
● for auxiliary contacts with screw-type terminals	1.85 N·m
design of the thread of the connection screw	
● for main contacts	M4
● of the auxiliary and control contacts	M4

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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https://www.siemens.com/ic10
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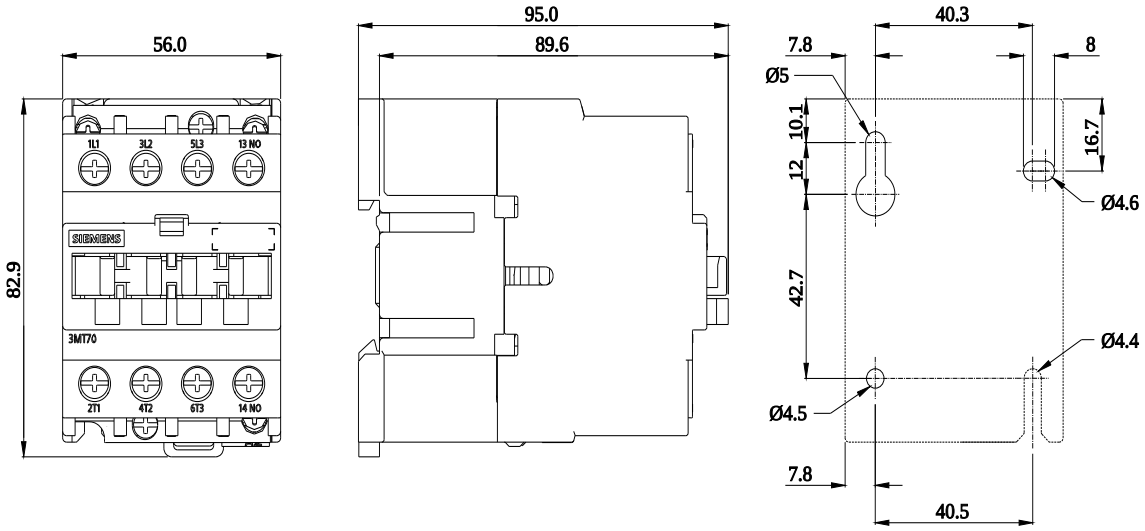
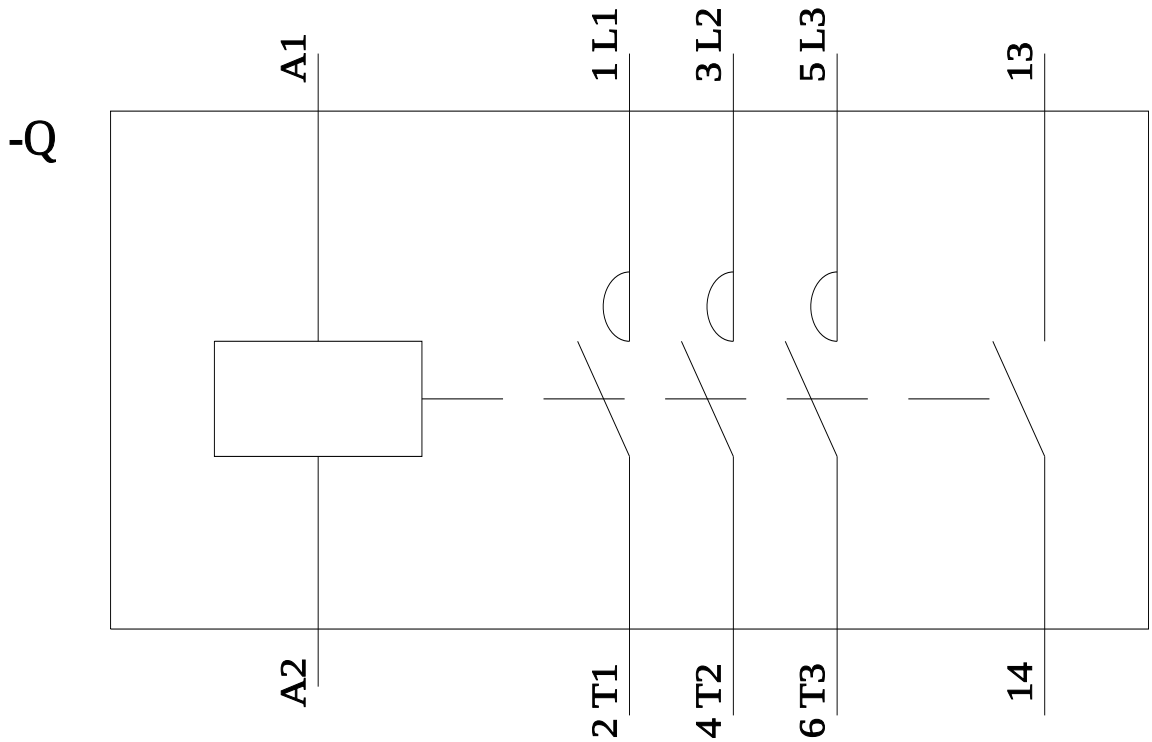
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7038-2AA10-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7038-2AA10-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA10-0AN2
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)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7038-2AA10-0AN2&objecttype=14&gridview=view1





last modified: 2/24/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	8 kV
● of auxiliary circuit rated value	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	
● 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	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	
● 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	
number of NC contacts for auxiliary contacts	
● instantaneous contact	1
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 80 A
— with type of assignment 2 required	fuse gG: 63 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	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 mm
depth	113 mm

Connections/ Terminals

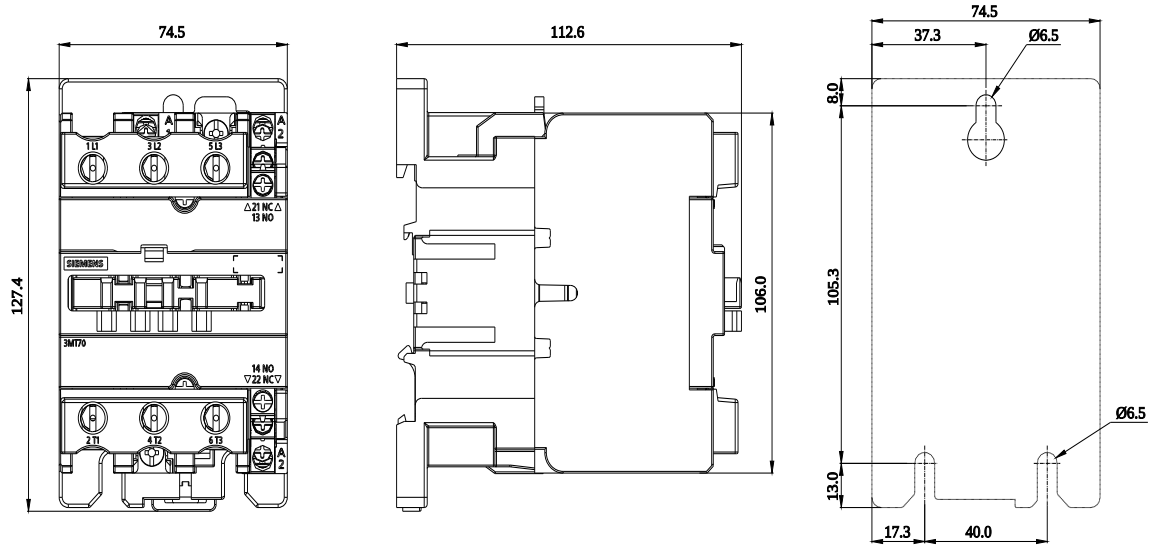
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (2.5 ... 25 mm²), 2x (2.5 ... 16 mm²)
● finely stranded with core end processing	1x (2.5 ... 25 mm²), 2x (2.5 ... 10 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	5 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M8
● of the auxiliary and control contacts	M3.5

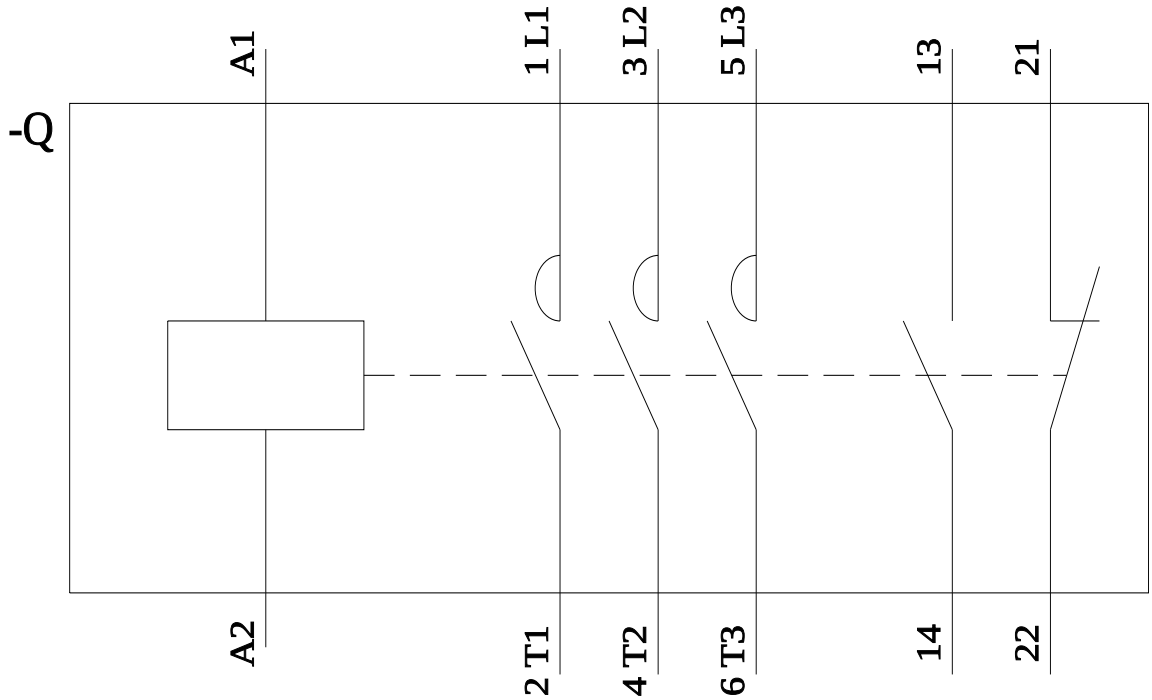
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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&lang=en
Characteristic: Tripping characteristics, I²t, 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





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	8 kV
● of auxiliary circuit rated value	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	
● 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	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	
number of NC contacts for auxiliary contacts	
● instantaneous contact	1
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 100 A
— with type of assignment 2 required	fuse gG: 80 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	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 mm
depth	113 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (2.5 ... 25 mm²), 2x (2.5 ... 16 mm²)
● finely stranded with core end processing	1x (2.5 ... 25 mm²), 2x (2.5 ... 10 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	5 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M8
● of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
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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
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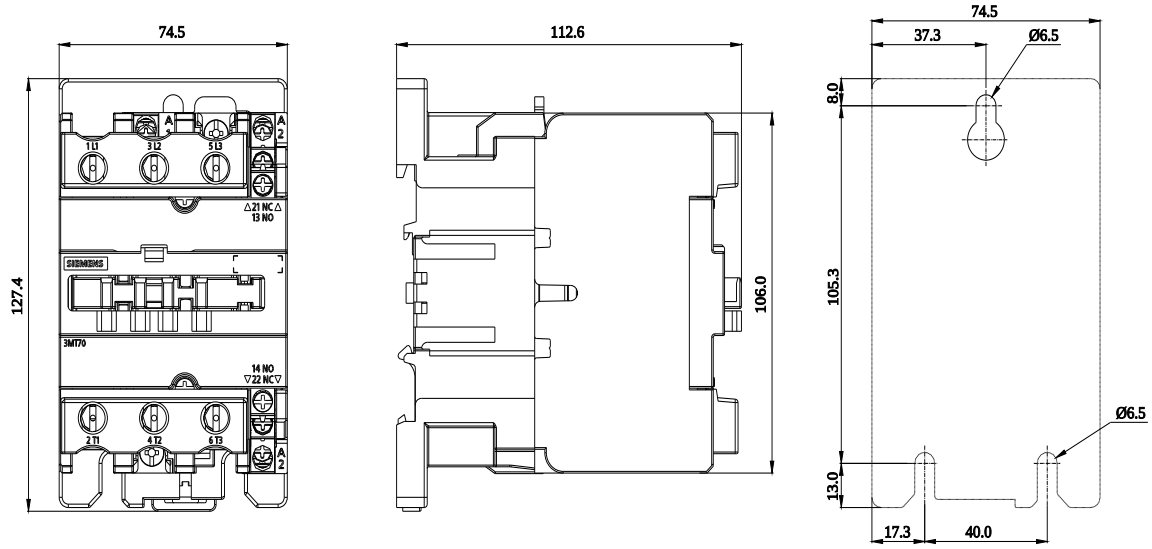
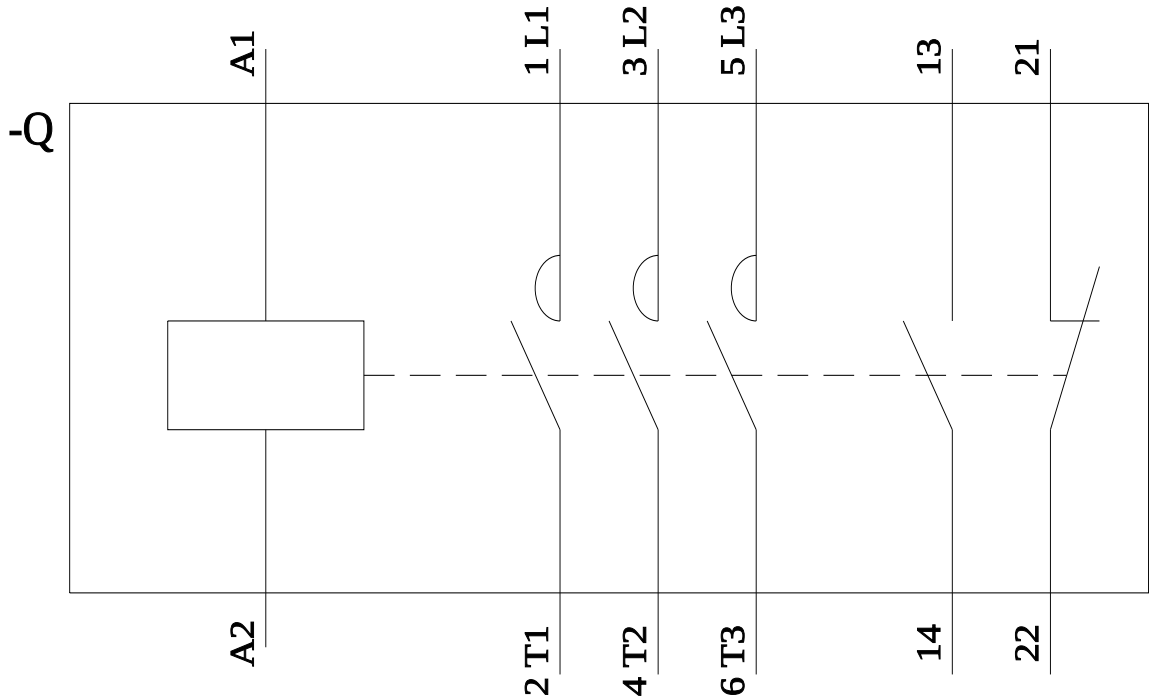
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7050-3AA11-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7050-3AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7050-3AA11-0AN2&objecttype=14&gridview=view1





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	8 kV
● of auxiliary circuit rated value	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	
● 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	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	
● 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	
number of NC contacts for auxiliary contacts	
● instantaneous contact	1
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 100 A
— with type of assignment 2 required	fuse gG: 80 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	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 mm
depth	113 mm

Connections/ Terminals

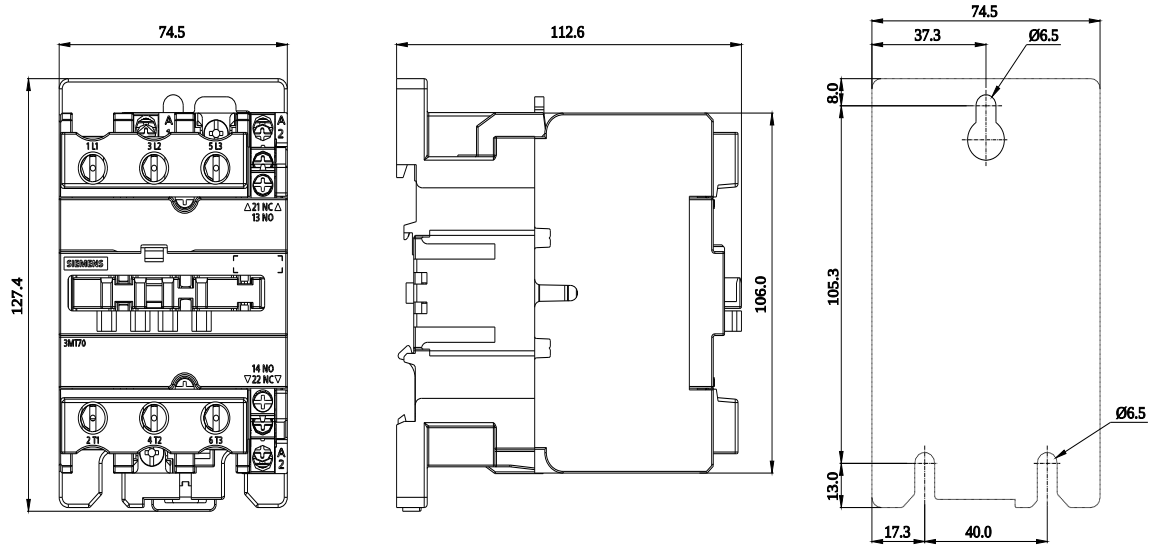
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (2.5 ... 25 mm²), 2x (2.5 ... 16 mm²)
● finely stranded with core end processing	1x (2.5 ... 25 mm²), 2x (2.5 ... 10 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— 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	
● for main contacts with screw-type terminals	5 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M8
● of the auxiliary and control contacts	M3.5

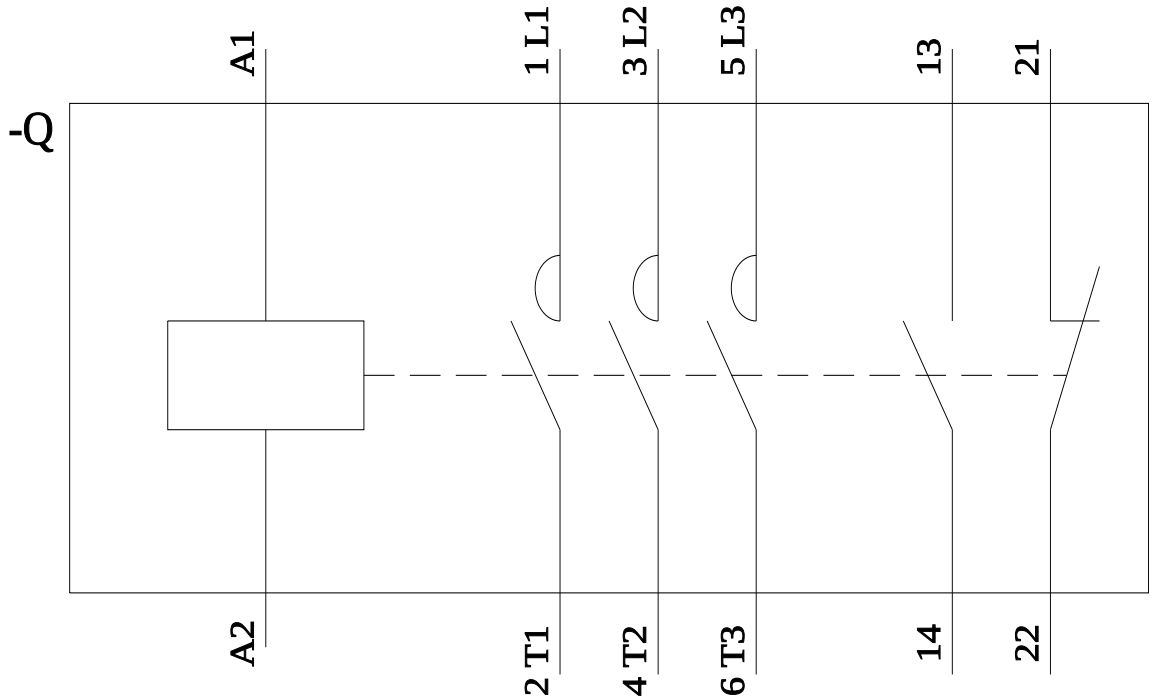
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

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&lang=en
Characteristic: Tripping characteristics, I²t, 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





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	8 kV
● of auxiliary circuit rated value	6 kV
protection class IP	
● on the front	IP20
mechanical service life (operating cycles)	
● of contactor typical	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	
● 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	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/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 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
opening delay at AC	5 ... 23 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
● instantaneous contact	1
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 160 A
— with type of assignment 2 required	fuse gG: 100 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	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	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (4 ... 50 mm²), 2x (4 ... 35 mm²)
● finely stranded with 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 stranded with core end processing	1x (1 ... 2.5 mm²), 2x (1 ... 1.5 mm²)
tightening torque	
● for main contacts with screw-type terminals	9 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M10
● of the auxiliary and control contacts	M3.5
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=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,...)
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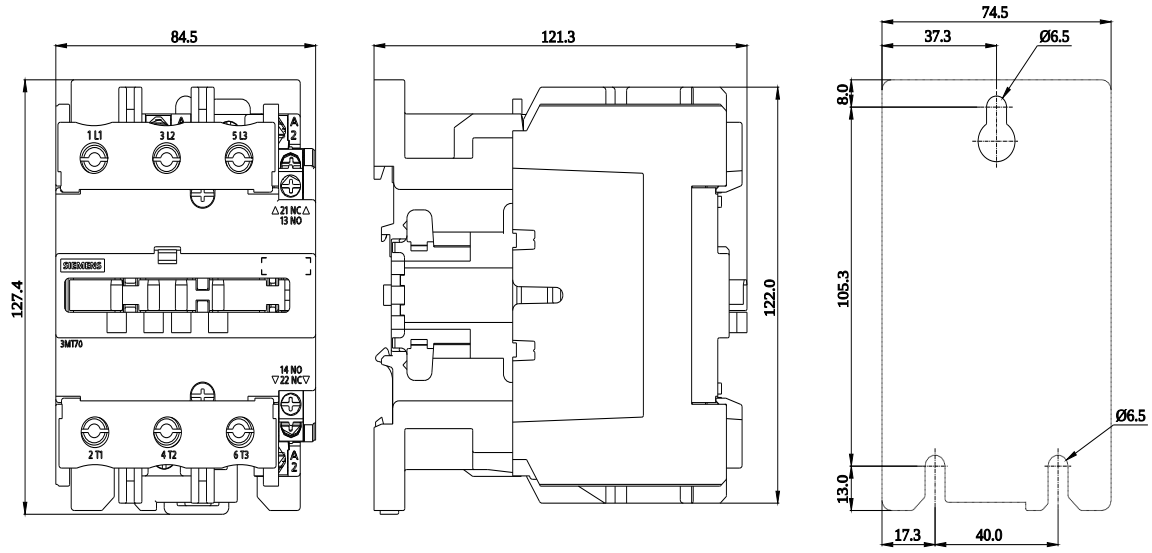
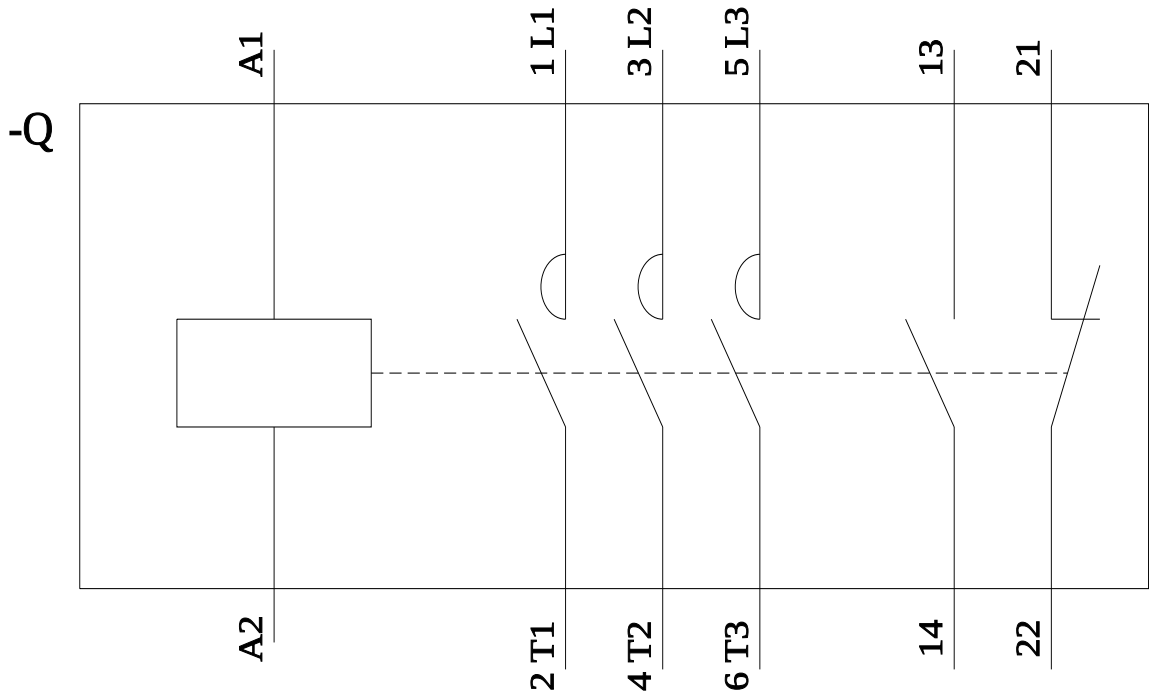
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7070-4AA11-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7070-4AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7070-4AA11-0AN2&objecttype=14&gridview=view1





last modified: 1/3/2023

SIEMENS

Data sheet 3MT7080-4AA11-0AN2

3P Power Contactor AC3:80A 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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	8 kV
● of auxiliary circuit rated value	6 kV
protection class IP	
● on the front	IP20
mechanical service life (operating cycles)	
● of contactor typical	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	
● 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	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/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 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
opening delay at AC	5 ... 23 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
● instantaneous contact	1
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 160 A
— with type of assignment 2 required	fuse gG: 125 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	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	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid or stranded	1x (4 ... 50 mm²), 2x (4 ... 35 mm²)
• finely stranded with 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 stranded with core end processing	1x (1 ... 2.5 mm²), 2x (1 ... 1.5 mm²)
tightening torque	
• for main contacts with screw-type terminals	9 N·m
• for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
• for main contacts	M10
• of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
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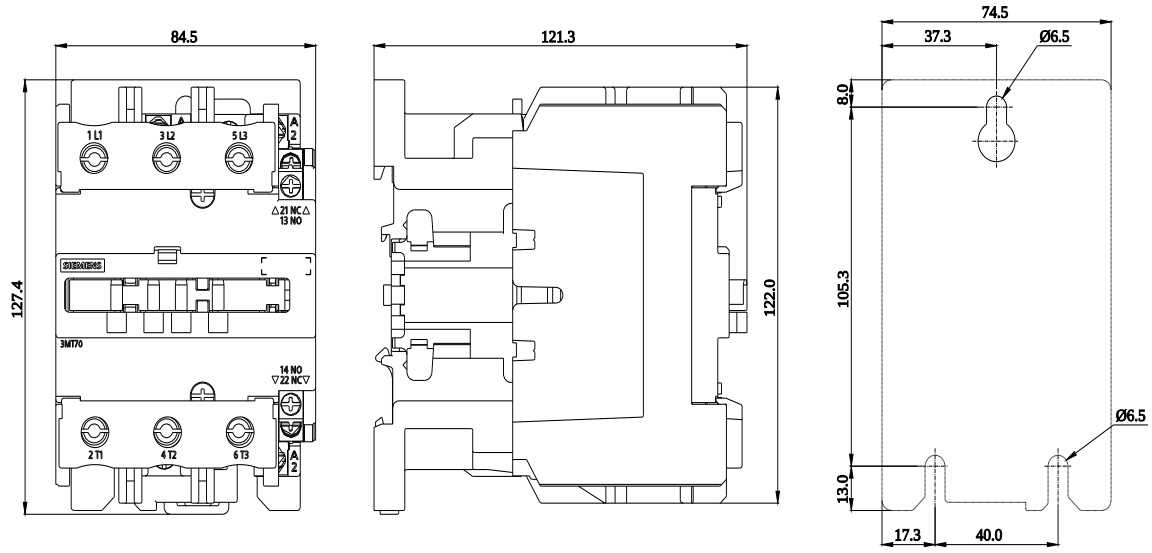
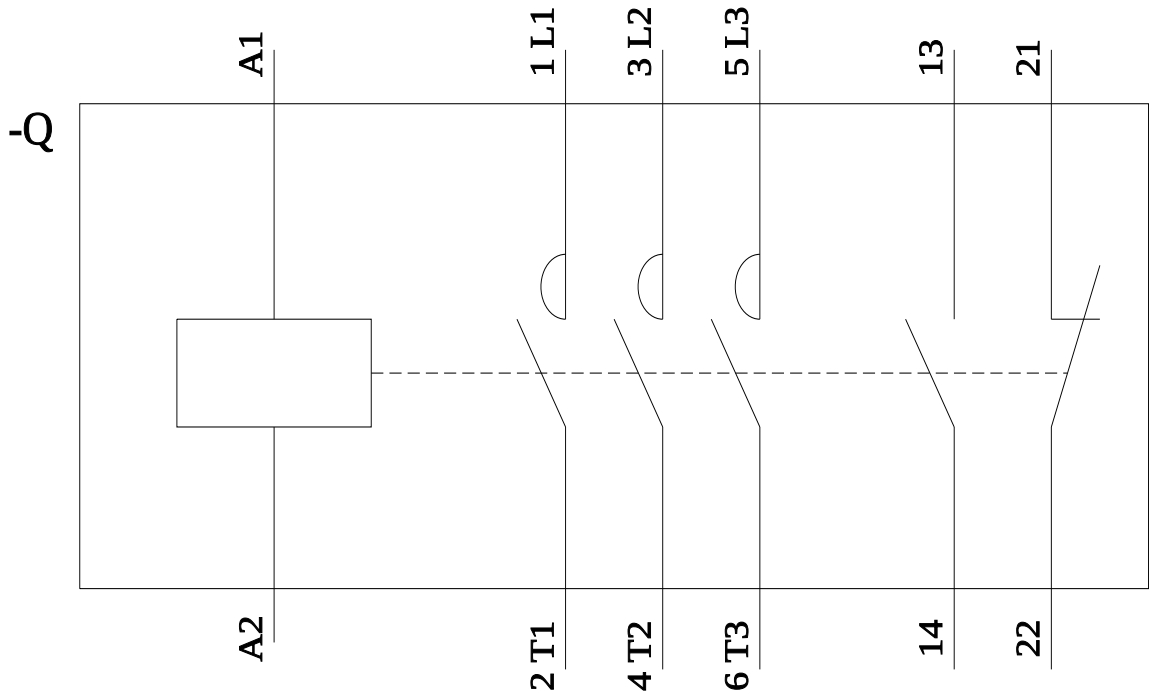
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7080-4AA11-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7080-4AA11-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7080-4AA11-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, 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





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of auxiliary circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
● of main circuit rated value	8 kV
● of auxiliary circuit rated value	6 kV
protection class IP	
● on the front	IP20
mechanical service life (operating cycles)	
● of contactor typical	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	
● 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	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 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
opening delay at AC	5 ... 23 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
● instantaneous contact	1
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	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 160 A
— with type of assignment 2 required	fuse gG: 125 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	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	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid or stranded	1x (4 ... 50 mm²), 2x (4 ... 35 mm²)
• finely stranded with 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 stranded with core end processing	1x (1 ... 2.5 mm²), 2x (1 ... 1.5 mm²)
tightening torque	
• for main contacts with screw-type terminals	9 N·m
• for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
• for main contacts	M10
• of the auxiliary and control contacts	M3.5

Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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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,...)
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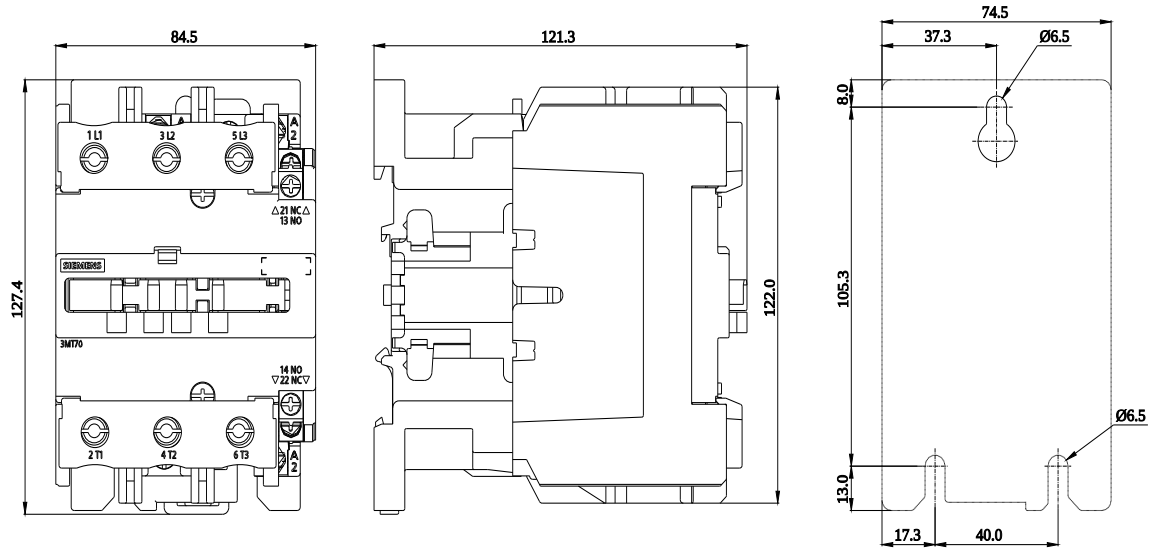
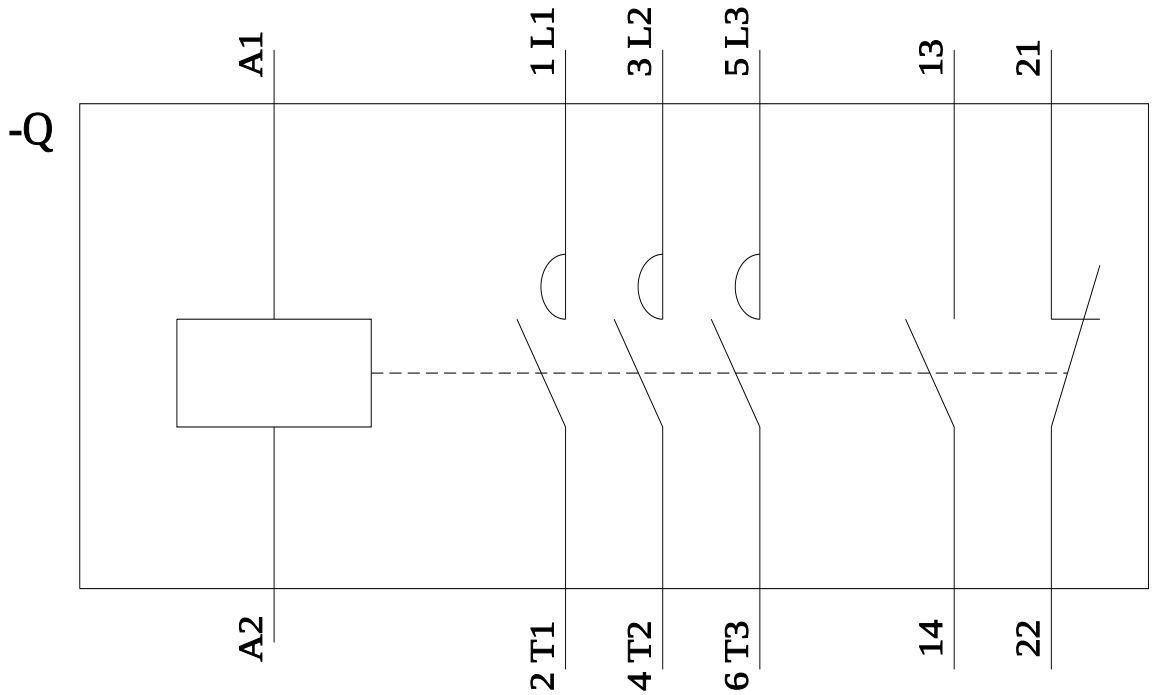
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7095-4AA11-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7095-4AA11-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7095-4AA11-0AN2&objecttype=14&gridview=view1





last modified: 1/3/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
● of main circuit rated value	8 kV
protection class IP	
● on the front	IP00
● of the terminal	IP00
mechanical service life (operating cycles)	
● of contactor typical	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	160 A
● at AC-3	
— at 400 V rated value	120 A
— at 690 V rated value	110 A
operating power	
● at AC-3	

— at 400 V rated value	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 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	
● 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
● at 60 Hz	0.24
closing delay at AC	22 ... 37 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 400 A
— with type of assignment 2 required	Fuse gG: 200 A
mounting position	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
fastening method	screw fixing
height	150 mm
width	120 mm
depth	152 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)
Safety related data	
product function	
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	

touch protection on the front according to IEC 60529	IP00

Approvals Certificates

General Product Approval	other	Environment
CB CB, EG-Konf.	Confirmation	Environmental Confirmations

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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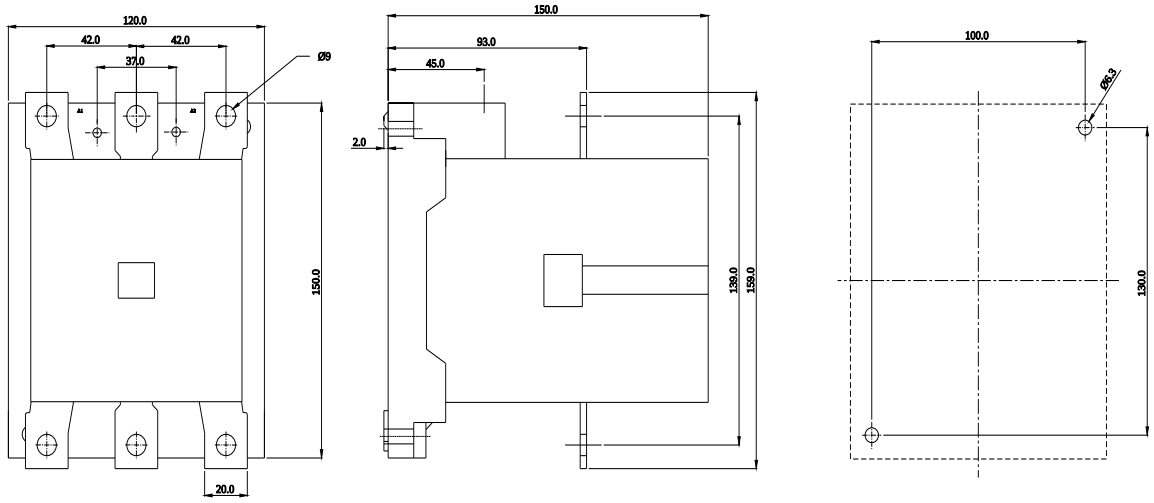
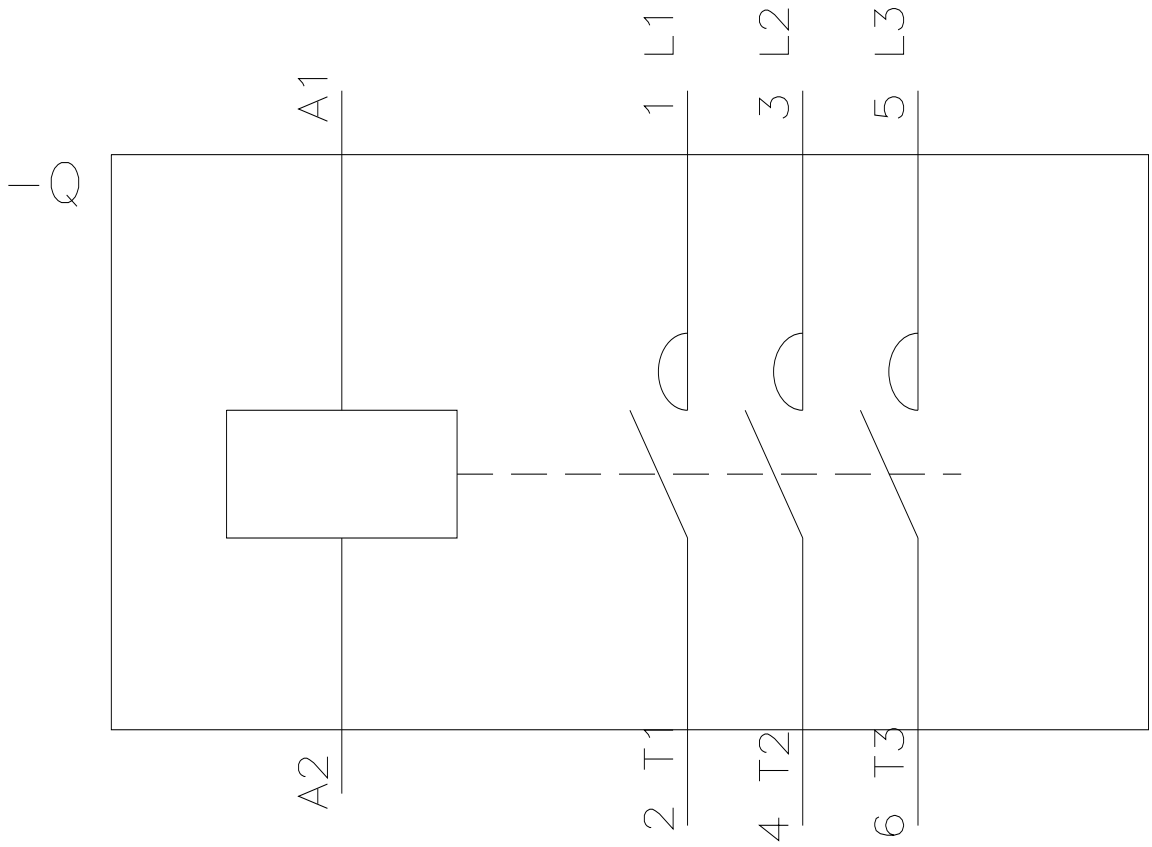
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7120-5AA00-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7120-5AA00-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7120-5AA00-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/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





last modified: 8/10/2023

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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	
● of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
● of main circuit rated value	8 kV
protection class IP	
● on the front	IP00
● of the terminal	IP00
mechanical service life (operating cycles)	
● of contactor typical	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	160 A
● at AC-3	
— at 400 V rated value	140 A
— at 690 V rated value	110 A
operating power	
● at AC-3	

— at 400 V rated value	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	
● 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
● at 60 Hz	0.24
closing delay at AC	22 ... 37 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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 400 A
— with type of assignment 2 required	Fuse gG: 250 A
mounting position	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
fastening method	screw fixing
height	150 mm
width	120 mm
depth	152 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)
Safety related data	
product function	
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	

touch protection on the front according to IEC 60529	IP00

Approvals Certificates

General Product Approval	other	Environment
CB CB, CE EG-Konf.	Confirmation	Environmental Confirmations

Further information

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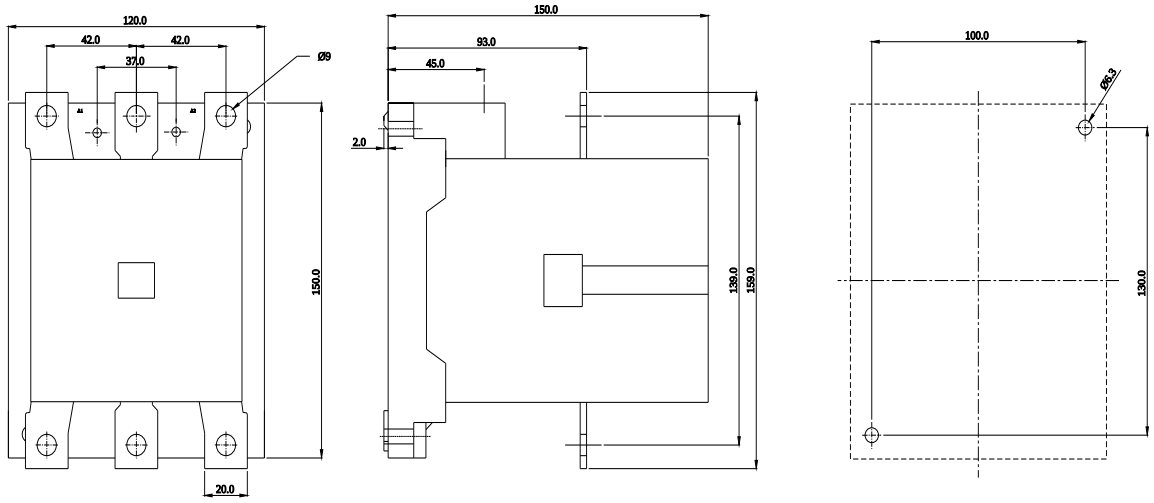
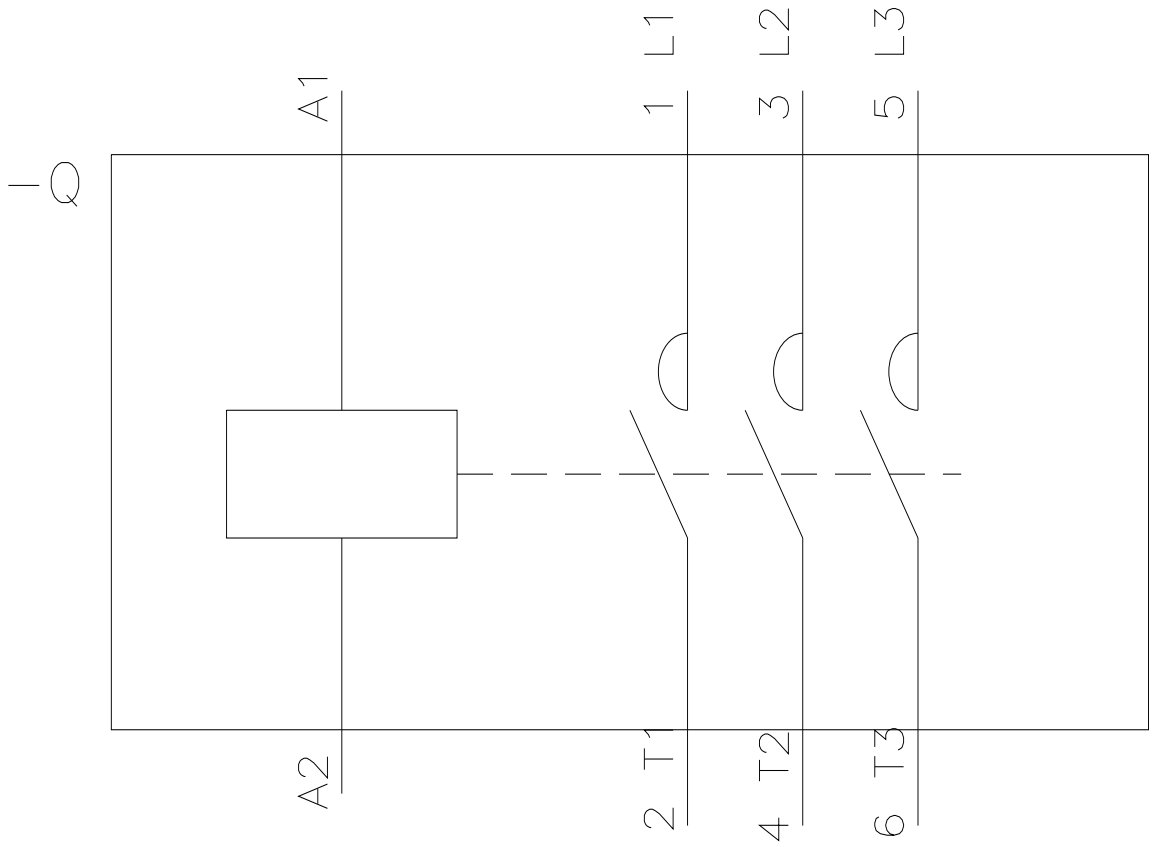
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7140-5AA00-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7140-5AA00-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7140-5AA00-0AN2&objecttype=14&gridview=view1





last modified: 8/10/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
● of main circuit rated value	8 kV
protection class IP	
● on the front	IP00
● of the terminal	IP00
mechanical service life (operating cycles)	
● of contactor typical	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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 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	
● 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 VA
● at 60 Hz	80 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.27
● at 60 Hz	0.27
closing delay at AC	25 ... 40 ms
opening delay at AC	10 ... 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
● attachable	4
Short-circuit protection	
design of the fuse link	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 400 A
— with type of assignment 2 required	Fuse gG: 250 A
mounting position	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
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	
● 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)
Safety related data	
product function	
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	

touch protection on the front according to IEC 60529	IP00

Approvals Certificates

General Product Approval	other	Environment
CB CB EG-Konf.	Confirmation	Environmental Confirmations

Further information

Information on the packaging
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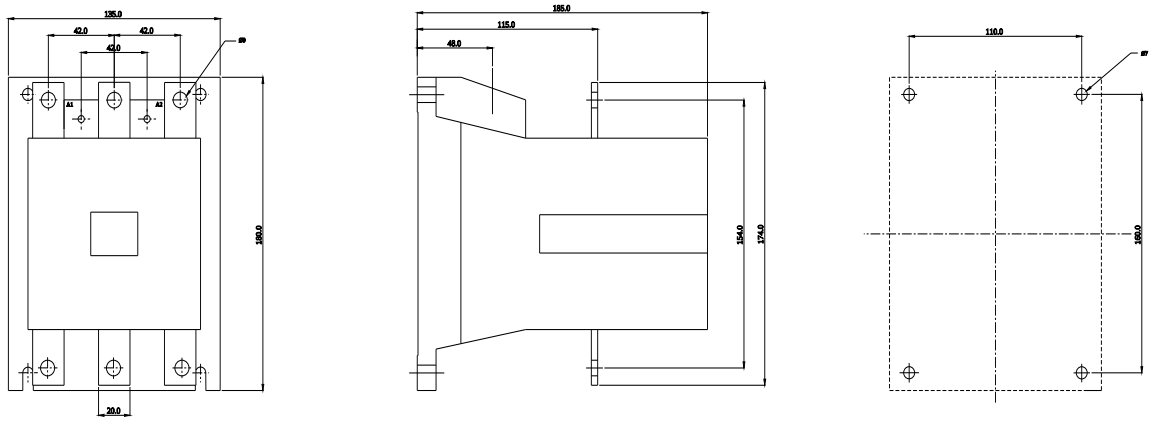
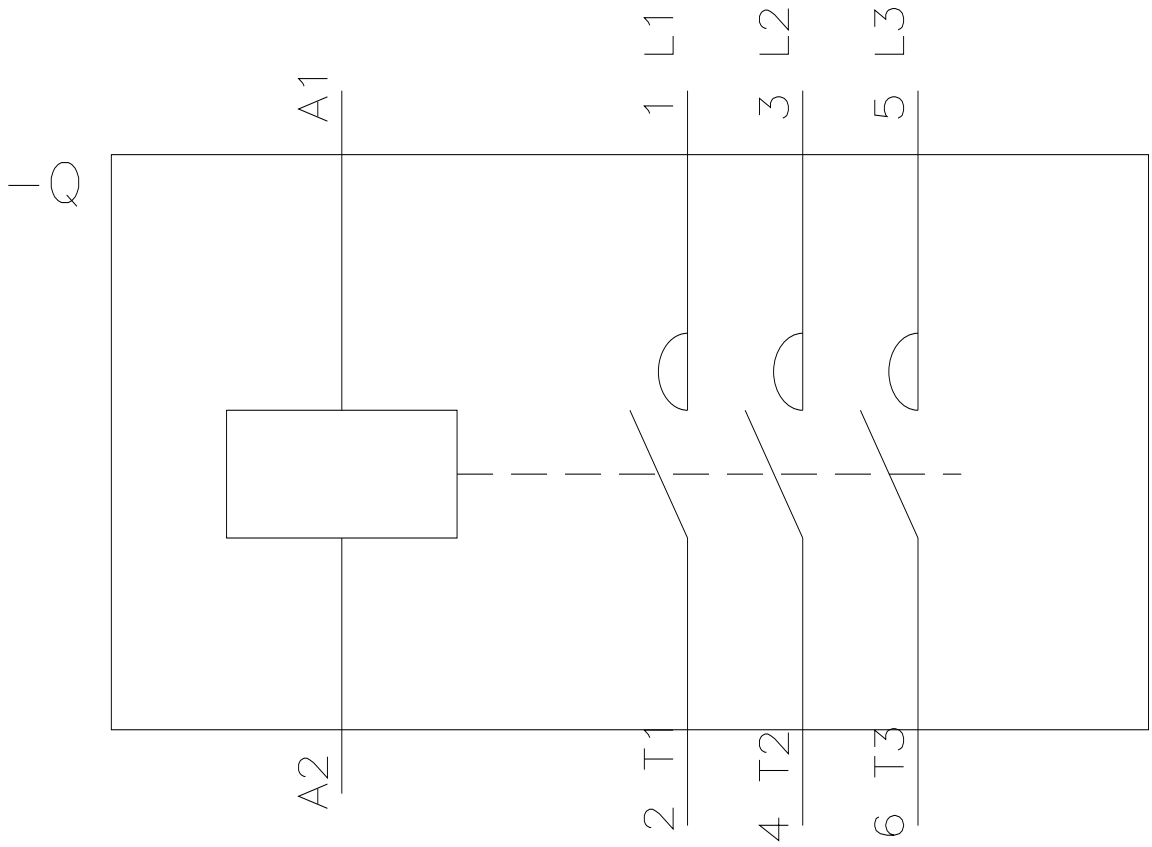
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7170-6AA00-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7170-6AA00-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7170-6AA00-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7170-6AA00-0AN2/char
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





last modified: 8/10/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
● of main circuit rated value	8 kV
protection class IP	
● on the front	IP00
● of the terminal	IP00
mechanical service life (operating cycles)	
● of contactor typical	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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
● 2 rated value	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 VA
● at 60 Hz	80 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.27
● at 60 Hz	0.27
closing delay at AC	25 ... 40 ms
opening delay at AC	10 ... 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
● attachable	4
Short-circuit protection	
design of the fuse link	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 400 A
— with type of assignment 2 required	Fuse gG: 250 A
mounting position	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
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	
● 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)
Safety related data	
product function	
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	

touch protection on the front according to IEC 60529	IP00

Approvals Certificates

General Product Approval	other	Environment
CB CB EG-Konf.	Confirmation	Environmental Confirmations

Further information

Information on the packaging
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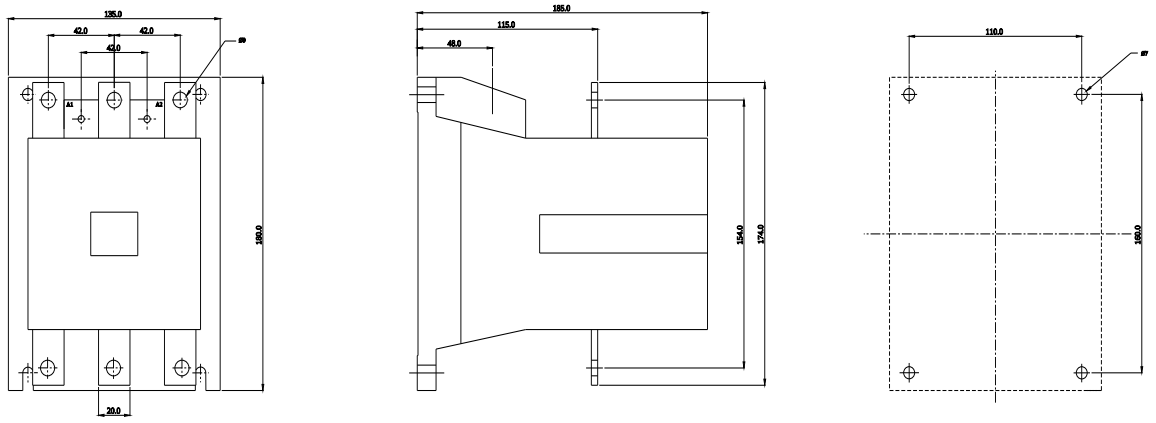
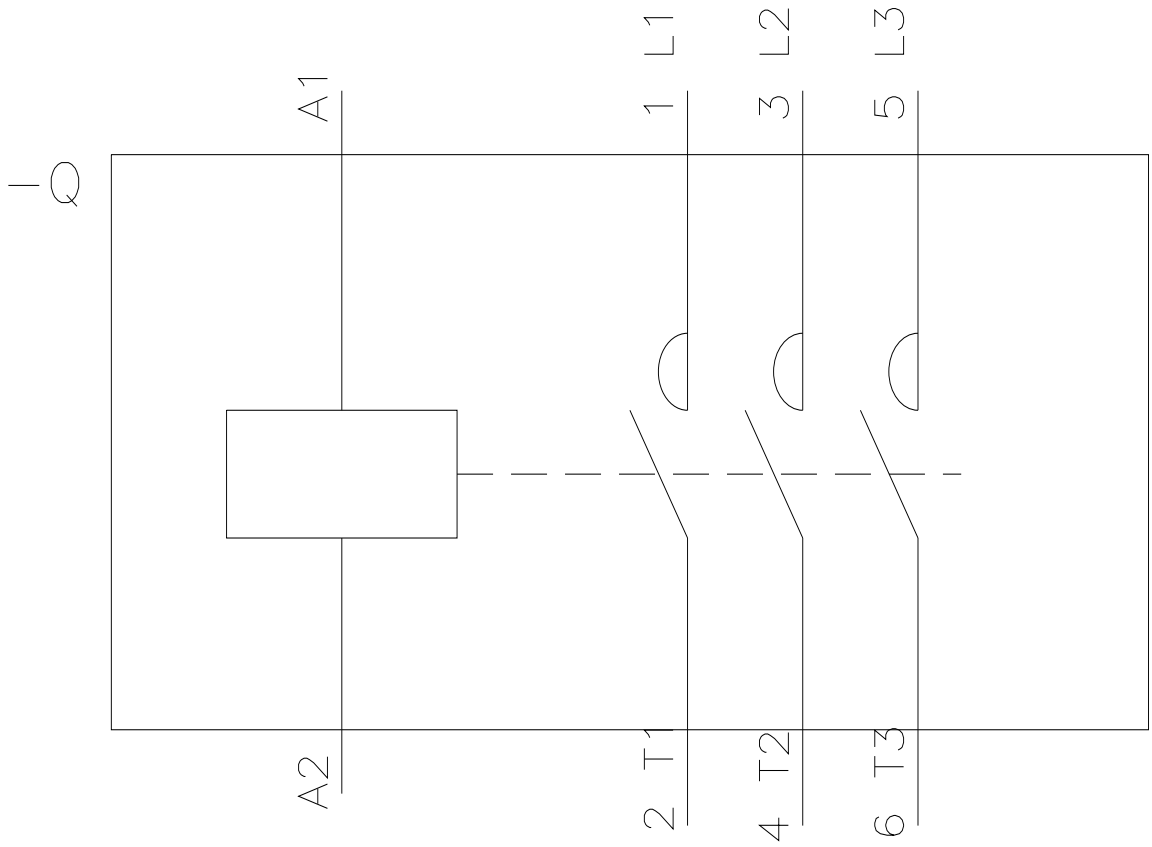
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7205-6AA00-0AN2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7205-6AA00-0AN2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7205-6AA00-0AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7205-6AA00-0AN2/char
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





last modified: 8/10/2023

SIEMENS

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	
● of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
● of main circuit rated value	8 kV
protection class IP	
● on the front	IP00
● of the terminal	IP00
mechanical service life (operating cycles)	
● of contactor typical	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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 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	
● 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
● at 60 Hz	0.23
closing delay at AC	25 ... 40 ms
opening delay at AC	10 ... 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
● attachable	4
Short-circuit protection	
design of the fuse link	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 500 A
— with type of assignment 2 required	Fuse gG: 400 A
mounting position	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
fastening method	screw fixing
height	205 mm
width	150 mm
depth	198 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 (70 ... 240 mm²)
● finely stranded with core end processing	2x (50 ... 240 mm²)
design of the thread of the connection screw	
● of the auxiliary and control contacts	M3.5 (Control)
Safety related data	
product function	
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	

touch protection on the front according to IEC 60529	IP00

Approvals Certificates

General Product Approval	other	Environment
CB CB EG-Konf.	Confirmation	Environmental Confirmations

Further information

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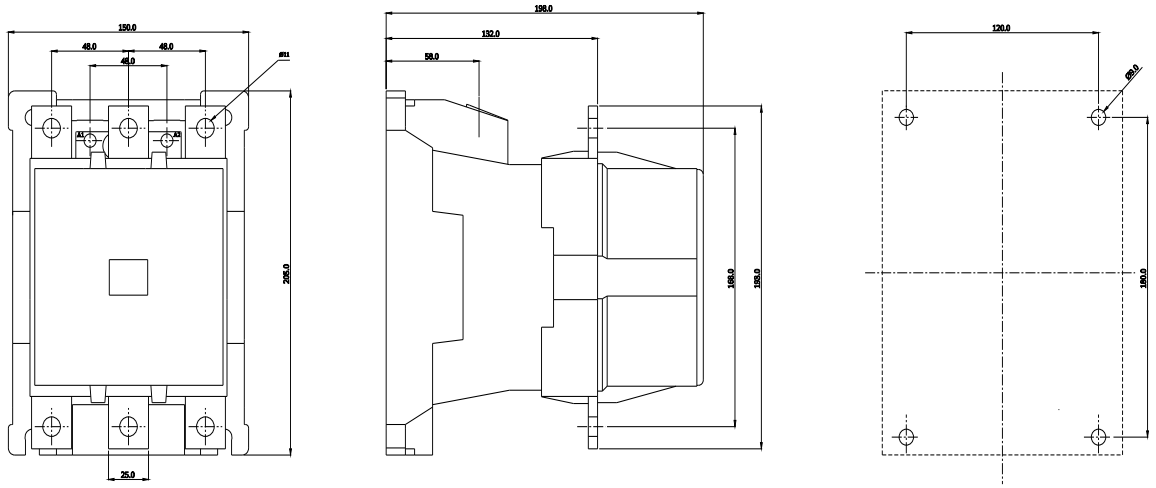
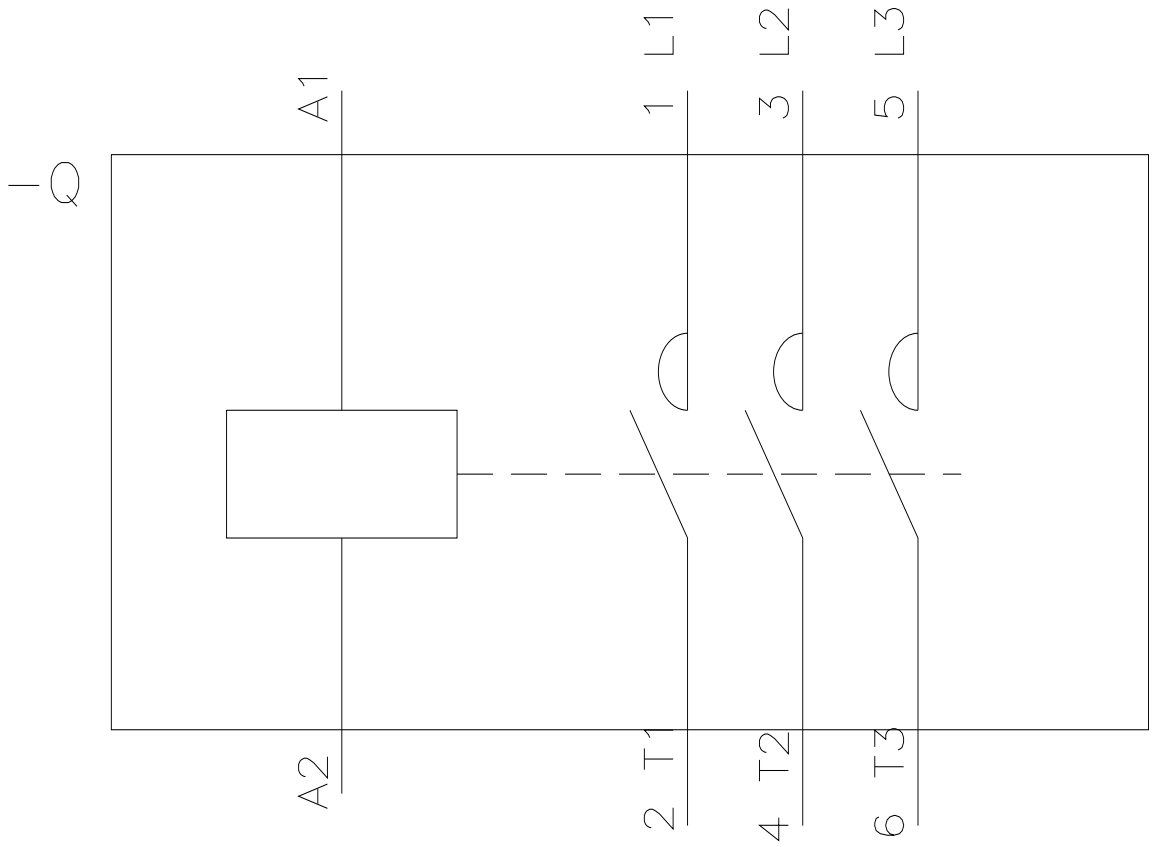
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7250-7AA00-0AN2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7250-7AA00-0AN2
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&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7250-7AA00-0AN2/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	
● of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
● of main circuit rated value	8 kV
protection class IP	
● on the front	IP00
● of the terminal	IP00
mechanical service life (operating cycles)	
● of contactor typical	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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	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 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	
● 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
● at 60 Hz	0.23
closing delay at AC	25 ... 40 ms
opening delay at AC	10 ... 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
● attachable	4
Short-circuit protection	
design of the fuse link	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 500 A
— with type of assignment 2 required	Fuse gG: 400 A
mounting position	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
fastening method	screw fixing
height	205 mm
width	150 mm
depth	198 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 (70 ... 240 mm²)
● finely stranded with core end processing	2x (50 ... 240 mm²)
design of the thread of the connection screw	
● of the auxiliary and control contacts	M3.5 (Control)
Safety related data	
product function	
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	

touch protection on the front according to IEC 60529	IP00

Approvals Certificates

General Product Approval	other	Environment
CB CB EG-Konf.	Confirmation	Environmental Confirmations

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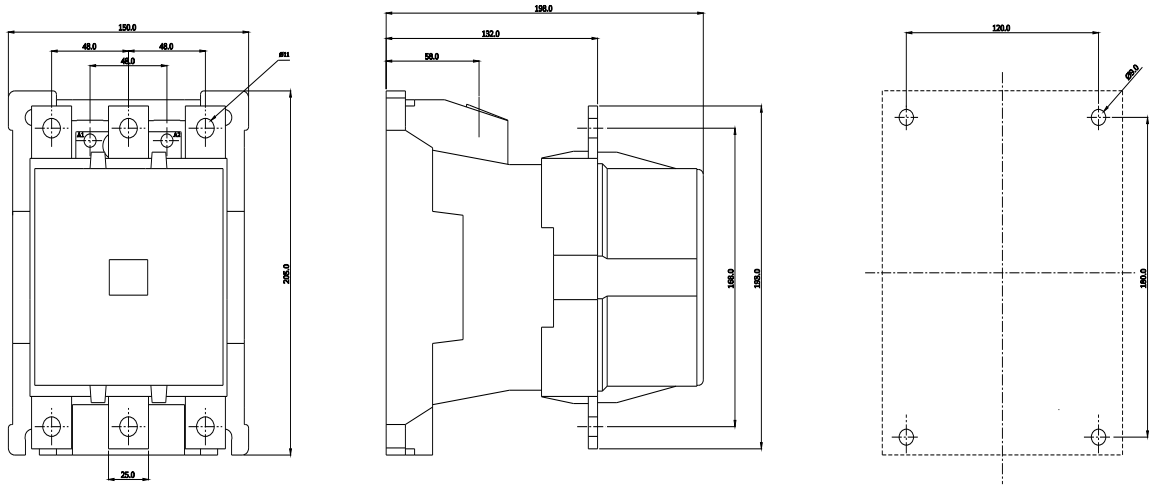
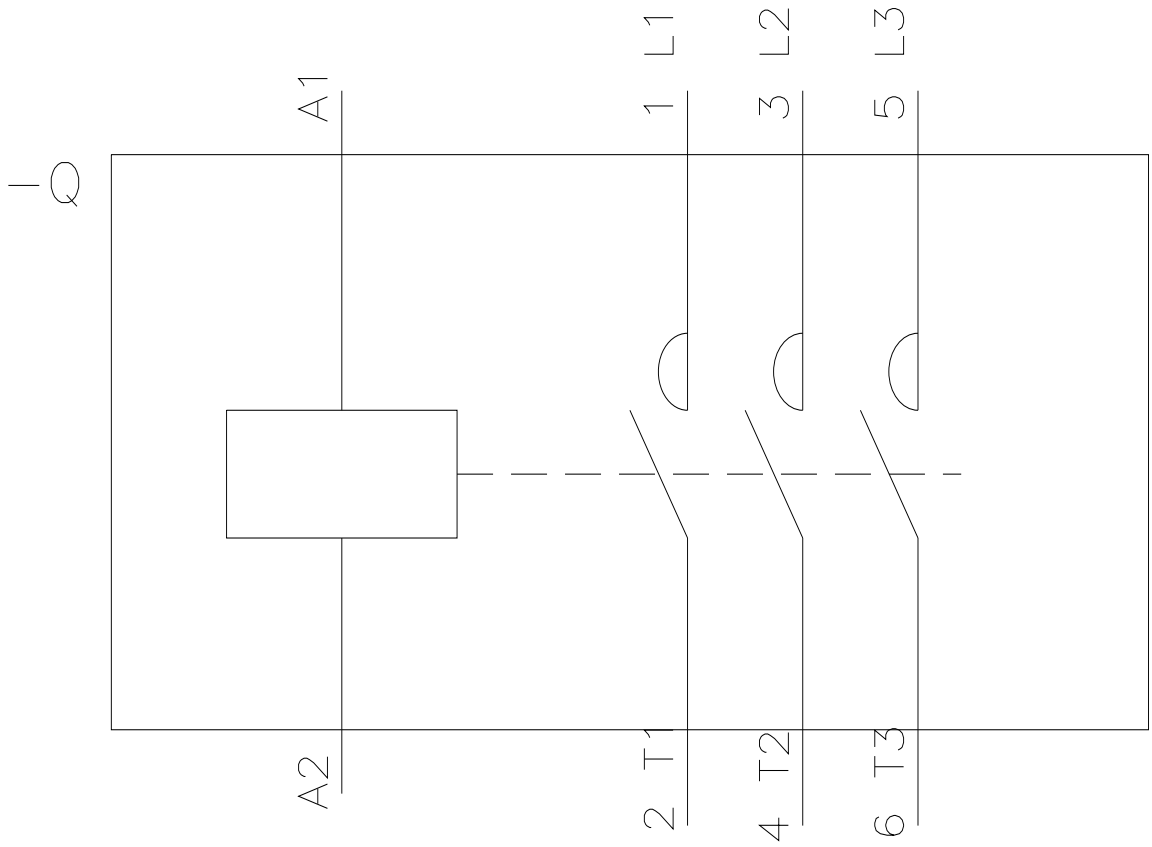
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7300-7AA00-0AN2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7300-7AA00-0AN2&objecttype=14&gridview=view1





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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	
● of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
● of main circuit rated value	8 kV
protection class IP	
● on the front	IP00
● of the terminal	IP00
mechanical service life (operating cycles)	
● of contactor typical	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	
● 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	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	400 A
● at AC-3	
— at 400 V rated value	400 A
— at 690 V rated value	400 A
operating power	
● at AC-3	

— at 400 V rated value	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 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	
● at 50 Hz	0.85
● at 60 Hz	0.85 ... 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	3 050 VA
● at 60 Hz	3 050 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.23
● at 60 Hz	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	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gG: 630 A
— with type of assignment 2 required	Fuse gG: 500 A
mounting position	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
fastening method	screw fixing
height	204 mm
width	160 mm
depth	222 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 (70 ... 240 mm²)
● finely stranded with core end processing	2x (50 ... 240 mm²)
design of the thread of the connection screw	
● of the auxiliary and control contacts	M3.5 (Control)
Safety related data	
product function	
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	

touch protection on the front according to IEC 60529	IP00

Approvals Certificates

General Product Approval	other	Environment
CB CB EG-Konf.	Confirmation	Environmental Confirmations

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Characteristic: Tripping characteristics, I²t, Let-through current
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Further characteristics (e.g. electrical endurance, switching frequency)
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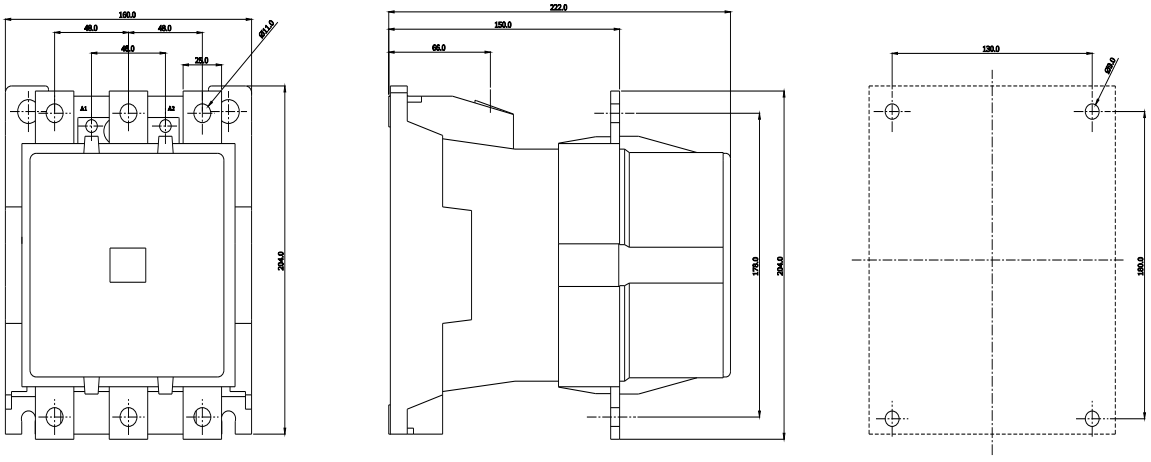

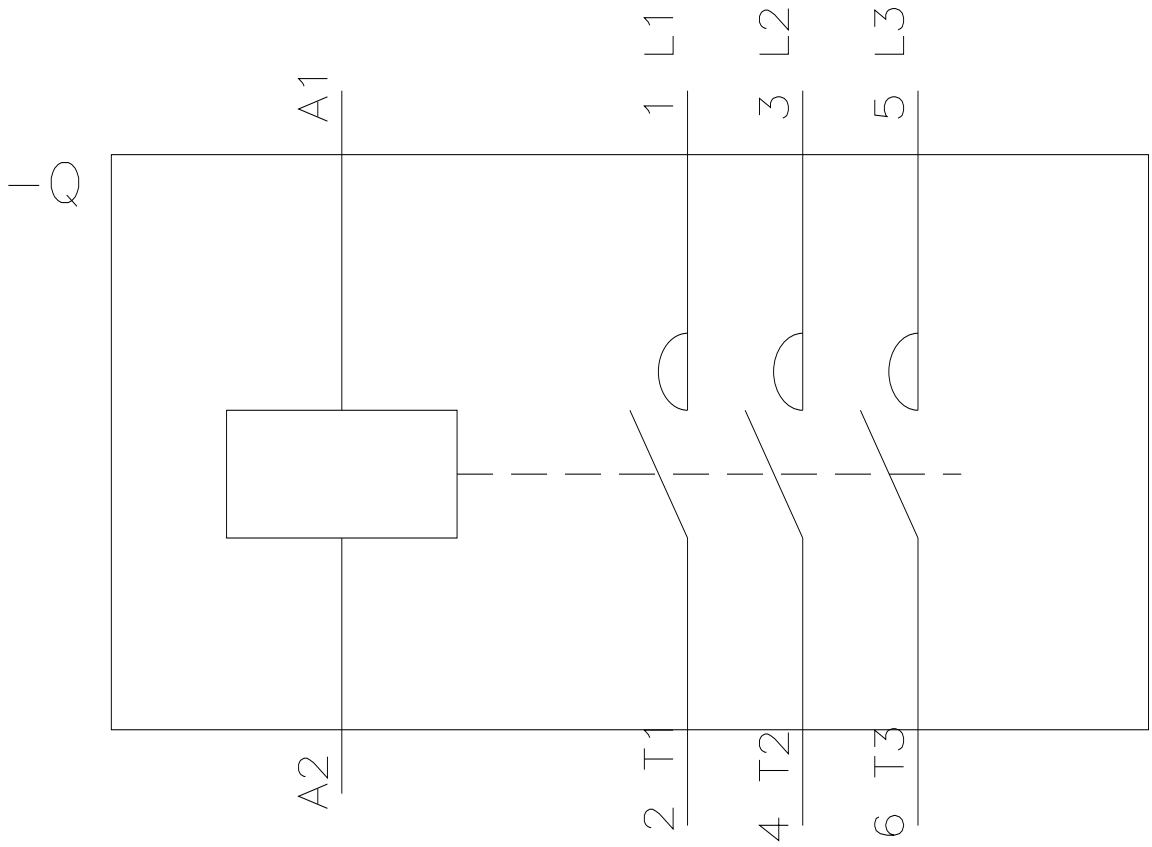

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