

PRODUCT-DETAILS

ESB25-04N-06

ESB25-04N-06 Installation Contactor (NC) 25 A - 0 NO - 4 NC - 230 ... 240 V - Control Circuit 400 Hz



General Information	
Extended Product Type	ESB25-04N-06
Product ID	1SAE231111R0604
EAN	4013614517891
Catalog Description	ESB25-04N-06 Installation Contactor (NC) 25 A - 0 NO - 4 NC - 230 240 V - Control Circuit 400 Hz
Long Description	The ESB25N installation contactors are used to control single and three-phase loads up to 25 A and can be operated by AC or DC. These contactors are made for use in household applications as well as in industrial environments The following benefits are provided: Hum-free operation, low power consumption and integrated overvoltage protection.
	Various contact combinations and accessories are available

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads	
Data Sheet, Technical Information	2CDC103051C0201
Instructions and Manuals	2CDC103043M6801
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	36 mm
Product Net Depth / Length	65 mm
Product Net Height	85 mm
Product Net Weight	0.235 kg

Technical	
Number of Main	0
Contacts NO	
Number of Main Contacts NC	4
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Number of Poles	4P
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 61095 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L
Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Frequency (f)	Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
Rated Operational Current AC-1 (I _e)	(NC) 25 A
Rated Operational Current AC-3 (I _e)	(230 V) Single Phase, NC 6 A
Rated Operational Current AC-7a (I _e)	(NC) 25 A
Rated Operational Current AC-7b (Ie)	(400 V) Three Phase, NC 6 A
Rated Operational Power AC-1 (P _e)	(230 V) Single Phase, NC 5.8 kW (400 V) Three Phase, NC 17.3 kW
Rated Operational Power AC-3 (P _e)	(230 V) Single Phase, NC 0.9 kW (400 V) Three Phase, NC 2.7 kW
Rated Operational Power AC-7a (P _e)	(230 V) Single Phase, NC 5.8 kW (400 V) Three Phase, NC 17.25 kW
Rated Operational Power AC-7b (P _e)	(230 V) Single Phase, NC 2.7 kW (400 V) Three Phase, NC 2.7 kW
Rated Breaking Capacity	8 x le / AC-3

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Rated Making Capacity AC-3	10 x le / AC-3
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A
Rated Insulation Voltage (U _i)	500 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
, Electrical Durability	AC-1 (NC) 50000 cycle AC-3 (NC) 340000 cycle AC-7a (NC) 50000 cycle AC-7b (NC) 340000 cycle
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-3) 600 cycles per hour (AC-7a) 300 cycles per hour (AC-7b) 600 cycles per hour
Mechanical Durability	Nr. Operations 1000000 cycle
Coil Operating Limits Rated Control Circuit Voltage (U _C)	(acc. to IEC 60947-4-1) 0.85 1.1 x Uc (at θ ≤ 55 °C) 230 240 V
Coil Consumption	Average Holding Value 50 / 60 Hz 4 V·A Average Holding Value DC 4 W Average Pull-in Value 50 Hz 4 V·A Average Pull-in Value 60 Hz 4 V·A Average Pull-in Value DC 4 W
Power Loss	at Rated Operating Conditions AC-1 per Pole 2 W
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1.5 10 mm ² Flexible with Ferrule 2x 1.5 2.5 mm ² Flexible with Insulated Ferrule 1x 1.5 10 mm ² Flexible with Insulated Ferrule 2x 1.5 mm ² Flexible 1x 1.5 10 mm ² Flexible 1x 1.5 10 mm ² Rigid 1x 1.5 10 mm ² Rigid 2x 1.5 4 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 1 2.5 mm ² Flexible with Ferrule 2x 0.75 1 mm ² Flexible with Insulated Ferrule 1x 1 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 1 mm ² Flexible 1x 1 4.0 mm ² Flexible 2x 1 2.5 mm ² Rigid 1x 1 4 mm ² Rigid 2x 1 2.5 mm ²
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection	IP20
Recommended Screw Driver	Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
Tightening Torque	Control Circuit 0.9 N·m Main Circuit 1 N·m
Terminal Type Width in Number of	Screw Terminals 2.0
Modular Spacings	
Product Name	Installation Contactor

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General Use Rating	(acc. to UL 240 V) 25 A
UL/CSA	(acc. to UL 480 V) 25 A
Horsepower Rating UL/CSA	(220 240 V AC) Single Phase, NC 1 Hp (220 240 V AC) Three Phase, NC 3 Hp (440 480 V AC) Single Phase, NC 0.5 Hp (440 480 V AC) Three Phase, NC 2 Hp
Connecting Capacity	Solid 16-8 AWG
Main Circuit UL/CSA	Stranded 16-8 AWG
Connecting Capacity	Solid 16-10 AWG
Control Circuit UL/CSA	Stranded 16-10 AWG
Tightening Torque	Control Circuit 8 in·lb
UL/CSA	Main Circuit 9 in·lb
Full Load Amps Motor Use	(220 240 V AC) Single Phase, NC 9.6 A (220 240 V AC) Three Phase, NC 9.6 A (440 480 V AC) Single Phase, NC 7.6 A (440 480 V AC) Three Phase, NC 7.6 A

Ambient Air	Operation -25 +55 °C
Temperature	Storage -40 +80 °C
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Consumer
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions	
End Of Life Disassembling Instructions	1SBC100156C0265
Environmental Product Declaration - EPD	1SAC200412H0001

Certificates and Declarations	
A2L Certificate – IEC	1SAA920000-4601
ABS Certificate	1SAA920000-0101
CB Certificate	1SAA920004-2001
CQC Certificate	CQC2017010304993564 CQC2017010304993565
Declaration of Conformity - CCC	2020980304001312 2020980304001314

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Declaration of Conformity - CE	1SAD101100-3301
Declaration of Conformity - UKCA	1SAD201100-3301
DNV Certificate	1SAA920000-0306
EAC Certificate	1SAA920001-2702
RINA Certificate	1SAA920000-0801
RMRS Certificate	1SAA920000-0705
UL Certificate	E191658-19960301

Container Information Package Level 1 Units box 1 piece Package Level 1 Width 92 mm Package Level 1 Depth / 39 mm Length 69.5 mm Package Level 1 Height Package Level 1 Gross 0.235 kg Weight Package Level 1 EAN 4013614524196 Package Level 2 Units 48 piece Package Level 2 Width 280 mm Package Level 2 Depth / 395 mm Length Package Level 2 Height 210 mm Package Level 2 Gross 11.8 kg Weight Package Level 2 EAN 4013614538599

External Classifications and Standards				
Object Classification Code	Q			
ETIM 7	EC001653 - Installation contactor for distribution board			
ETIM 8	EC001653 - Installation contactor for distribution board			
ETIM 9	EC001653 - Installation contactor for distribution board			
eClass	V11.0 : 27142308			
UNSPSC	39121529			
IDEA Granular Category Code (IGCC)	4759 >> Installation contactor for distribution board			
E-Number (Finland)	3707573			
E-Number (Norway)	4190255			
E-Number (Sweden)	3210563			

Accessories

Identifier 1SAE901901R1011	Description EH04-11N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	Type Quantity		Unit Of Measure
		EH04-11N	1	piece
1SAE901901M1011	EH04-11N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	EH04-11N	1	piece
1SAE901901R1020	EH04-20N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	EH04-20N	1	piece
1SAE901901M1020	EH04-20N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	EH04-20N	1	piece
GHE3201903R0001	ESB-PLK24 Sealing Cover	ESB-PLK24	1	piece
GHE3201902R0001	ESB-DIS Distance Piece	ESB-DIS	1	piece

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Installation Contactors

 ${\sf Low \ Voltage \ Products \ and \ Systems \ \rightarrow \ Modular \ DIN \ Rail \ Products \ \rightarrow \ Command \ and \ Signalling \ Devices \ \rightarrow \ Installation \ Contactors \ And \ A$

