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PRODUCT-DETAILS

ESB25-22N-06

ESB25-22N-06 Installation Contactor (NC) 25 A - 2 NO - 2 NC - 230 ... 240 V - Control Circuit 400 Hz



General Information	
Extended Product Type	ESB25-22N-06
Product ID	1SAE231111R0622
EAN	4013614517921
Catalog Description	ESB25-22N-06 Installation Contactor (NC) 25 A - 2 NO - 2 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.

Popular D	ownloads

Minimum Order Quantity

Customs Tariff Number

Ordering

1 piece

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Data Sheet, Technical Information	2CDC103051C020
Instructions and Manuals	2CDC103043M680
CAD Dimensional Drawing	2CDC001079B020
Dimensions	
Product Net Width	36 mn
Product Net Width Product Net Depth / Length	65 mn
Product Net Height Product Net Weight	85 mn 0.235 kr
Tackwical	
Technical	
Number of Main Contacts NO	•
Number of Main Contacts NC	2
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	
Number of Poles	4F
Standards	IEC/EN 60947- IEC/EN 60947-4- IEC/EN 61094 UL 60947- UL 60947-4- IEC 60335-2-40 A2I
Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Frequency (f)	Control Circuit 400 H: Control Circuit 50 H: Control Circuit 60 H: Control Circuit DO Main Circuit 50 H: Main Circuit 60 H: Main Circuit DO
Rated Operational Current AC-1 (I _e)	(NC) 25 A (NO) 25 A
Rated Operational Current AC-3 (I _e)	(230 V) Single Phase, NC 6 A (230 V) Single Phase, NO 9 A
Rated Operational Current AC-7a (I _e)	(NC) 25 A (NO) 25 A
Rated Operational Current AC-7b (I _e)	(230 V) Single Phase, NC 6 A (230 V) Single Phase, NO 9 A
Rated Operational Power AC-1 (P _e)	(230 V) Single Phase, NC 5.8 kV (230 V) Single Phase, NO 5.8 kV
Rated Operational Power AC-3 (P _e)	(230 V) Single Phase, NC 1.3 kV (230 V) Single Phase, NO 1.3 kV
Rated Operational Power AC-7a (P _e)	(230 V) Single Phase, NC 5.8 kV (230 V) Single Phase, NO 5.8 kV
Rated Operational Power AC-7b (P _e)	(230 V) Single Phase, NC 0.9 kW (230 V) Single Phase, NO 1.3 kW
Rated Breaking Capacity AC-3	8 x le / AC-3
Rated Making Capacity AC-3	10 x le / AC-
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

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$\underline{(U_i)}$	
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Electrical Durability	AC-1 (NC) 50000 cycle AC-1 (NO) 130000 cycle AC-3 (NC) 340000 cycle AC-3 (NO) 500000 cycle AC-7a (NC) 50000 cycle AC-7a (NO) 130000 cycle AC-7b (NO) 340000 cycle AC-7b (NO) 500000 cycle AC-7b (NO) 500000 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 mm² Flexible with Ferrule 2x 1.5 2.5 mm² Flexible with Insulated Ferrule 1x 1.5 10 mm² Flexible with Insulated Ferrule 2x 1.5 mm² Flexible 1x 1.5 10 mm² Flexible 2x 1.5 4 mm² Rigid 1x 1.5 10 mm² Rigid 2x 1.5 4 mm²
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 1 2.5 mm² Flexible with Ferrule 2x 0.75 1 mm² Flexible with Insulated Ferrule 1x 1 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 1 mm² Flexible 1x 1 4.0 mm² Flexible 2x 1 2.5 mm² Rigid 1x 1 4 mm² Rigid 2x 1 2.5 mm²
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection Recommended Screw	IP20 Control Circuit Pozidriv 1
Driver Tightening Torque	Main Circuit Pozidriv 1 Control Circuit 0.9 N·m Main Circuit 1 N·m
Terminal Type Width in Number of Modular Spacings	Screw Terminals 2.0
Product Name	Installation Contactor
Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 480 V AC
General Use Rating UL/CSA	(acc. to UL 240 V) 25 A (acc. to UL 480 V) 25 A
Horsepower Rating UL/CSA	(220 240 V AC) Single Phase, NC 1 Hp (220 240 V AC) Single Phase, NO 1 Hp (440 480 V AC) Single Phase, NC 2 Hp (440 480 V AC) Single Phase, NO 2 Hp
Connecting Capacity Main Circuit UL/CSA	Solid 16-8 AWG Stranded 16-8 AWG
Connecting Capacity Control Circuit UL/CSA	Solid 16-10 AWG Stranded 16-10 AWG

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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) Single Phase, NO 9.6 A (440 480 V AC) Single Phase, NC 7.6 A (440 480 V AC) Single Phase, NO 7.6 A

Environmental	
Ambient Air Temperature	Operation -25 +55 °C Storage -40 +80 °C
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g
Pollution Degree	3

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 <u>Declaration</u> - 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
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

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Package Level 1 Width	92 mm
Package Level 1 Depth / Length	39 mm
Package Level 1 Height	69.5 mm
Package Level 1 Gross Weight	0.235 kg
Package Level 1 EAN	4013614524226
Package Level 2 Units	48 piece
Package Level 2 Width	280 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Height	210 mm
Package Level 2 Gross Weight	11.8 kg
Package Level 2 EAN	4013614538629

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)	3707575
E-Number (Norway)	4190260
E-Number (Sweden)	3210565

Accessories				
Identifier	Description	Туре	Quantity	Unit Of Measure
1SAE901901R1011	EH04-11N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	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

 $Low\ Voltage\ Products\ and\ Systems\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ Installation\ Contactors$ $Low\ Voltage\ Products\ and\ Systems\ \rightarrow\ Modular\ DIN\ Rail\ Products\ \rightarrow\ Command\ and\ Signalling\ Devices\ \rightarrow\ Installation\ Contactors$

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