ESB20-20N-05





ESB20-20N-05 Installation Contactor

General Information

Extended Product Type	ESB20-20N-05
Product ID	1SBE121111R0520
EAN	3471523007475
Catalog Description	ESB20-20N-05 Installation Contactor
Long Description	The ESB20N installation contactors are used to control single loads up to 20 A and can be operated by AC or DC voltages.
	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.

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Ordering

Package Level 1 EAN	3471523004634
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads

Data Sheet, Technical Information	2CDC103036C0201
Instructions and Manuals	2CDC103043M6801

Dimensions

Product Net Width	18 mm	
Product Net Height	86 mm	
Product Net Depth / Length	65 mm	
Product Net Weight	0.14 kg	

Technical

Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 250 V AC
Rated Control Circuit Voltage (U _c)	240 V
Rated Frequency (f)	Control Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit 400 Hz

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	Main Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
Rated Operational Current AC-1 (I _e)	(NO) 20 A
Rated Operational Current AC-3 (I _e)	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-1 (P _e)	(230 V) Single Phase, NO 4.6 kW
Rated Operational Power AC-3 (P _e)	(230 V) Single Phase, NO 1.3 kW
Rated Operational Current AC-7a (I _e)	(NO) 20 A
Rated Operational Power AC-7a (P _e)	(230 V) Single Phase, NO 4.6 kW
Rated Operational Current AC-7b (I _e)	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-7b (P _e)	(230 V) Single Phase, NO 1.3 kW
Recommended Screw Driver	Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 400 V
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1 6 mm ² Flexible with Ferrule 2x 1 2.5 mm ² Flexible with Insulated Ferrule 1x 1 6 mm ² Flexible with Insulated Ferrule 2x 1 1.5 mm ² Flexible 1x 1 6 mm ² Flexible 2x 1 4 mm ² Rigid 1x 1 10 mm ² Rigid 2x 1 4 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 1 2.5 mm ² Flexible with Ferrule 2x 0.75 1.5 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 2.5 mm ² Flexible 2x 1 1.5 mm ² Rigid 1x 0.5 4 mm ² Rigid 2x 0.75 2.5 mm ²
Tightening Torque	Control Circuit 0.9 N·m Main Circuit 1.2 N·m
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection	IP20
Electrical Durability	AC-1 (NO) 150000 cycle AC-3 (NO) 150000 cycle AC-7a (NO) 150000 cycle AC-7b (NO) 150000 cycle
Mechanical Durability	1000000 cycle
Number of Poles	2
Number of Main Contacts NC	0
Number of Main Contacts NO	2
Width in Number of Modular Spacings	1
Pollution Degree	3

Environmental

Ambient Air Temperature	Operation -25 +55 °C
	Storage -40 +80 °C
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Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g
RoHS Status	Following EU Directive 2011/65/EU

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Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 240 V AC
Horsepower Rating UL/CSA	(220 240 V AC) Single Phase, NO 1 Hp
Connecting Capacity Main Circuit UL/CSA	Solid 14-8 AWG Stranded 14-8 AWG
Connecting Capacity Control Circuit UL/CSA	Solid 16-10 AWG Stranded 16-10 AWG
Tightening Torque UL/CSA	Control Circuit 8 in·lb Main Circuit 11 in·lb

Certificates and Declarations (Document Number)

CB Certificate	1SAA920007-2001
CCC Certificate	1SAA920005-3801
cULus Certificate	cUL E191658
Declaration of Conformity - CE	1SAD938501-0302
Instructions and Manuals	2CDC103043M6801
RoHS Information	1SAD938501-0389

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	20 mm
Package Level 1 Height	89 mm
Package Level 1 Depth / Length	73 mm
Package Level 1 Gross Weight	0.14 kg
Package Level 1 EAN	3471523004634

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Classifications

Object Classification Code	Q
ETIM 5	EC001653 - Installation contactor for distribution board
ETIM 6	EC001653 - Installation contactor for distribution board
ETIM 7	EC001653 - Installation contactor for distribution board
eClass	7.0 27142308
UNSPSC	39121529

Categories

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

 $Low\ Voltage\ Products\ \rightarrow\ Modular\ DIN\ Rail\ Products\ \rightarrow\ Modular\ DIN\ Rail\ Components\ MDRCs\ \rightarrow\ Installation\ Contactors$

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