

PRODUCT-DETAILS

ESB16-20N-04

ESB16-20N-04 Installation Contactor (NO) 16 A - 2 NO - 0 NC - 110 V - Control Circuit DC



General Information	
Extended Product Type	ESB16-20N-04
Product ID	1SBE111111R0420
EAN	3471523007079
Catalog Description	ESB16-20N-04 Installation Contactor (NO) 16 A - 2 NO - 0 NC - 110 V - Control Circuit DC
	The ESB16N installation contactors are used to control single loads up to 16 A and car be operated by AC or DC.
Long Description	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	
Package Level 1 EAN	3471523004429
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads	
Data Sheet, Technical Information	2CDC103051C0201
Instructions and Manuals	2CDC103043M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SBB505186D3001

18 mm
85 mm
65 mm
0.14 kg

Technical	
Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 250 V AC
Rated Control Circuit Voltage (U _c)	110 V
Rated Frequency (f)	Control Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit 400 Hz Main Circuit DC Main Circuit 50 Hz Main Circuit 50 Hz
Rated Operational Current AC-1 (I _e)	(NO) 16 A
Rated Operational Current AC-3 (I _e)	(230 V) Single Phase, NO 6 A
Rated Operational Power AC-1 (Pe)	(230 V) Single Phase, NO 3.7 kW
Rated Operational Power AC-3 (P _e)	(230 V) Single Phase, NO 0.9 kW
Rated Operational Current AC-7a (Ie)	(NO) 16 A
Rated Operational Power AC-7a (P _e)	(230 V) Single Phase, NO 3.7 kW
Rated Operational Current AC-7b (I _e)	(230 V) Single Phase, NO 6 A
Rated Operational Power AC-7b (P_e)	(230 V) Single Phase, NO 0.9 kW
Recommended Screw Driver	Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Insulation Voltage (Ui)	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 Ferrule 1x 1 ... 6 mm² Flexible with Ferrule 2x 1 ... 2.5 mm² Flexible with Insulated Ferrule 1x 1 ... 6 mm² Flexible with Insulated Ferrule 2x 1 ... 15 mm² Flexible 1x 1 ... 6 mm² Flexible 2x 1 ... 4 mm² Rigid 1x 1 ... 10 mm²

	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	2P
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Main Contacts NC	0
Number of Main Contacts NO	2
Width in Number of Modular Spacings	1.0
Pollution Degree	3
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-4 UL 60947-4-1 IEC/EN 61095 IEC 60335-2-40 A2L

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 240 V AC
Horsepower Rating UL/CSA	(220 240 V AC) Single Phase, NO 0.75 Hp
Connecting Capacity	Solid 14-8 AWG
Main Circuit UL/CSA	Stranded 14-8 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 11 in·lb

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
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

2024/11/19

Subject to change without notice

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-00627
Toxic Substances Control Act - TSCA	2CMT2023-00652
WEEE B2C / B2B	Business To Consume
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
ABB EcoSolutions	
Environmental Product	1SAC200416H0001
Declaration - EPD	
Declaration - EPD Certificates and Declarations	
	1SAA920000-460
Certificates and Declarations A2L Certificate - IEC	
Certificates and Declarations A2L Certificate - IEC ABS Certificate	1SAA920000-010
Certificates and Declarations	15AA920000-460 15AA920000-010 15AA920007-200 CQC201801030405735 CQC2018010304057344
Certificates and Declarations A2L Certificate - IEC ABS Certificate CB Certificate CQC Certificate Declaration of	1SAA920000-010 1SAA920007-200 CQC201801030405735 CQC201801030405734 2020980304001370
Certificates and Declarations A2L Certificate – IEC ABS Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC	1SAA920000-010 1SAA920007-200 CQC201801030405735
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Certificates and Declarations A2L Certificate – IEC ABS Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of	1SAA92000-010 1SAA920007-200 CQC201801030405735 CQC201801030405734 202098030400137 202098030400137
Certificates and Declarations A2L Certificate – IEC ABS Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA	1SAA92000-010 1SAA920007-200 CQC201801030405735 CQC201801030405734 202098030400137 202098030400137 1SAD101100-330
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Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	88 mm
Package Level 1 Height	71 mm
Package Level 1 Depth / Length	20 mm
Package Level 1 Gross Weight	0.14 kg

Classifications		
Object Classification Code		Q
ETIM 5	EC001653 - Installat	ion contactor for distribution board
ETIM 6	EC001653 - Installation contactor for distribution board	
ETIM 7	EC001653 - Installati	ion contactor for distribution board
eClass		V11.0 : 27142308
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UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4759 >> Installation contactor for distribution board
ETIM 8	EC001653 - Installation contactor for distribution board

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

Categories

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

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

