

PRODUCT-DETAILS

ESB20-20N-01

ESB20-20N-01 Installation Contactor (NO) 20 A - 2 NO - 0 NC - 24 V - Control Circuit DC



General Information	
Extended Product Type	ESB20-20N-01
Product ID	1 SBE 121111M0120
Catalog Description	ESB20-20N-01 Installation Contactor (NO) 20 A - 2 NO - 0 NC - 24 V - Control Circuit DC
	The ESB20N installation contactors are used to control single loads up to 20 A and can 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	3471523004962
Minimum Order Quantity	12 piece
Customs Tariff Number	85365080

Popular Downloads

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

Dimensions	
Product Net Width	18 mm
Product Net Height	85 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.14 kg

Main Circuit 220 V DC Main Circuit 250 V AC
24 V
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
(NO) 20 A
(230 V) Single Phase, NO 9 A
(230 V) Single Phase, NO 4.6 kW
(230 V) Single Phase, NO 1.3 kW
(NO) 20 A
(230 V) Single Phase, NO 4.6 kW
(230 V) Single Phase, NO 9 A
(230 V) Single Phase, NO 1.3 kW
Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
6 kV
400 V
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

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Flexible with Ferrule 1x 1 ... 2.5 mm² Subject to change without notice

Control Circuit	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 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 60947-4-1 UL 60947-4-1 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 1 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 lk
UL/CSA	Main Circuit 11 in lk

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

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)

Certificates and Declarations A2L Certificate – IEC 1SAA920000-4601 **ABS** Certificate 1SAA920000-0101 **CB** Certificate 1SAA920007-2001 CQC Certificate CQC2018010304057353 CQC2018010304057344 Declaration of 2020980304001370 Conformity - CCC 2020980304001371 Declaration of 1SAD101100-3301 Conformity - CE Declaration of 1SAD201100-3301 Conformity - UKCA **DNV** Certificate 1SAA920000-0306 EAC Certificate 1SAA920003-2701 NF Certificate 1SAA920002-1201 **RMRS** Certificate 1SAA920000-0705 E191658-19960301 **UL** Certificate

Container Information	
Package Level 1 Units	box 12 piece
Package Level 1 Width	88 mm
Package Level 1 Height	69.5 mm
Package Level 1 Depth / Length	222 mm
Package Level 1 Gross Weight	1.68 kg
Package Level 1 EAN	3471523004962

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	V11.0 : 27142308
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4759 >> Installation contactor for distribution board
ETIM 8	EC001653 - Installation contactor for distribution board

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Accessories				
Identifier 1SAE901901R1011	Description	Type Quantity		Unit Of Measure
	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

Categories

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

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

