

Representative Image

Alternate Catalog No. ESB20-20N-04
Catalog No. 1SBE121111R0420

Description: ESB20-20N-04 Installation Contactor

UPC No 3471523007444

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The ESB20..N 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.

Descriptors

Category	AF Contactors

Specifications

Product Type	Installation Contactors (2-poles)
General Use Rating UL/CSA	(acc. to UL 240 V) 20 A
Object Classification Code	Q
Rated Control Circuit Voltage	110 V
Number of Main Contacts NO	2
Number of Main Contacts NC	0
Maximum Operating Voltage UL/CSA	Main Circuit 240 V AC
Connecting Capacity Main Circuit UL/CSA	Solid 14-8 american wire gauge Stranded 14-8 american wire gauge
Connecting Capacity Main Circuit UL/CSA	Solid 14-8 american wire gauge Stranded 14-8 american wire gauge
RoHS Status	Following EU Directive 2011/65/EU
Reference Ambient Air Temperature	Operation -25 ... +55 °C
Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 250 V AC
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 15g
Tightening Torque UL/CSA	Control Circuit 8 in-lb (pound inch) Main Circuit 11 in-lb (pound inch)
Rated Operational Current AC-1	(NO) 20 A
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1 IEC/EN 61095
Rated Operational Power AC-3	(230 V) Single Phase, NO 1.3 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x Ie / AC-3
Horsepower Rating UL/CSA	(220 ... 240 V AC) Single Phase, NO 1 hp
Rated Frequency	Control Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit 400 Hz Main Circuit DC Main Circuit 50Hz Main Circuit 60 Hz
Rated Short-time Withstand Current	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A

by ABB

Specifications

Rated Operational Current AC-3	(230 V) Single Phase, NO 9 A
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x Ie / AC-3
Maximum Electrical Switching Frequency	AC-1 cycles per hour AC-3 cycles per hour AC-7a cycles per hour AC-7b cycles per hour
Short-Circuit Protective Devices	gG Type Fuses 20 A
Rated Insulation Voltage	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 400 V
Mechanical Durability	1000000 cycle
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 ... 1.1 x Uc (at θ ≤ 55 °C)
Secondary Rated Impulse Withstand Voltage	6 kV
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1 ... 6/2x 1 ... 2.5 square mm/square mm Flexible with Insulated Ferrule 1x 1 ... 6/2x 1 ... 1.5 square mm/square mm Flexible 1x 1 ... 6/2x 1 ... 4 square mm/square mm Rigid 1x 1 ... 10/2x 1 ... 4 square mm/square mm
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 1 ... 2.5/2x 0.75 ... 1.5 square mm/square mm Flexible with Insulated Ferrule 1x 1 ... 2.5/2x 0.75 ... 1 square mm/square mm Flexible 1x 1 ... 2.5/2x 1 ... 1.5 square mm/square mm Rigid 1x 0.5 ... 4/2x 0.75 ... 2.5 square mm/square mm
Coil Consumption	Average Holding Value 50 / 60 Hz 2.5 V - A Average Pull-in Value 50 Hz 2.5 V - A Average Pull-in Value 60 Hz 2.5 V - A Average Holding Value DC 2.5 W Average Pull-in Value DC 2.5 W
Mounting on DIN Rail	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm

Classifications

ETIM 6.0	EC001653 - Installation contactor for distribution board
ETIM 7	EC001653 - Installation contactor for distribution board
ETIM 5.0	EC001653 - Installation contactor for distribution board
eClass	7.0 27142308

Dimensions

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

Package Information

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

Ordering

Minimum Order Quantity	1

Ordering	
Customs Tariff Number	85365080