

## Alternate Catalog No. ESB40-20N-06 Catalog No. 1SAE341111R0620

**Description:** ESB40-20N-06 Installation Contactor

**UPC No** 4013614518478

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The ESB40..N installation contactors are used to control single and three-phase loads up to 40 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.



Representative Image

### Descriptors

Category	AF Contactors
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### Specifications

Product Type	Installation Contactors (4-poles)
General Use Rating UL/CSA	(acc. to UL 240 V) 40 ampere (acc. to UL 480 V) 40 ampere
Object Classification Code	Q
Rated Control Circuit Voltage	230 V
Number of Main Contacts NO	2
Number of Main Contacts NC	0
Maximum Operating Voltage UL/CSA	Main Circuit 480 V AC
Connecting Capacity Main Circuit UL/CSA	Solid 16-4 american wire gauge Stranded 16-4 american wire gauge
Connecting Capacity Main Circuit UL/CSA	Solid 16-4 american wire gauge Stranded 16-4 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 400 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 20 in-lb (pound inch)
Rated Operational Current AC-1	(NO) 40 A
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 61095 UL 60947-1 UL 60947-4-1
Rated Operational Power AC-3	(230 V) Single Phase, NO 3.7 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 3 hp (440 ... 480 V AC) Single Phase, NO 7.5 hp
Rated Frequency	Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit DC Main Circuit 50Hz Main Circuit 60 Hz Main Circuit DC
Rated Short-time Withstand Current	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 176 A

**by ABB**

## Specifications

Rated Operational Current AC-3	(230 V) Single Phase, NO 22 A
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x I <sub>e</sub> / 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 63 A
Rated Insulation Voltage	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 500 V
Mechanical Durability	1000000 cycle
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 ... 1.1 x U <sub>c</sub> (at $\theta \leq 55$ °C)
Secondary Rated Impulse Withstand Voltage	6 kV
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1.5 ... 16/2x 1.5 ... 10 square mm/square mm Flexible with Insulated Ferrule 1x 1.5 ... 16/2x 1.5 ... 10 square mm/square mm Flexible 1x 1.5 ... 16/2x 1.5 ... 10 square mm/square mm Rigid 1x 1.5 ... 25/2x 1.5 ... 10 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 1 ... 4/2x 1 ... 2.5 square mm/square mm
Coil Consumption	Average Holding Value 50 / 60 Hz 4.5 V - A Average Pull-in Value 50 Hz 4.5 V - A Average Pull-in Value 60 Hz 4.5 V - A Average Holding Value DC 5 W Average Pull-in Value DC 5 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
Wire Stripping Length	Control Circuit 7 mm Main Circuit 13 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	0.37 kg
Product Net Depth / Length	65 mm
Product Net Width	54 mm
Product Net Height	85 mm

## Package Information

Package Level 1 Width	57 mm
Package Level 1 Height	92 mm
Package Level 1 Depth / Length	69.5 mm
Package Level 1 Units	1 piece
Package Level 2 Width	280 mm
Package Level 2 Height	210 mm
Package Level 1 Gross Weight	0.37 kg
Package Level 2 Depth / Length	395 mm

**Package Information**

Package Level 2 EAN	4013614539176
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**Ordering**

Minimum Order Quantity	1
Customs Tariff Number	85365080