

# ESB25-20N-01



## ESB25-20N-01 Installation Contactor



### General Information

Extended Product Type	ESB25-20N-01
Product ID	1SAE231111R0120
EAN	4013614517631
Catalog Description	ESB25-20N-01 Installation Contactor
Long Description	<p>The ESB25..N installation contactors are used to control single and three-phase loads up to 25 A and can be operated by AC or DC voltages.</p> <p>These contactors are made for use in household applications as well as in industrial environments. The following benefits are provided:</p> <p>Hum-free operation, low power consumption and integrated overvoltage protection.</p> <p>Various contact combinations and accessories are available.</p>

### Ordering

Package Level 1 EAN	4013614523939
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

### Popular Downloads

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

### Dimensions

Product Net Width	36 mm
Product Net Height	85 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.23 kg

### Technical

Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Control Circuit Voltage ( $U_c$ )	24 V
Rated Frequency (f)	Control Circuit 400 Hz Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit DC

	Main Circuit 50 Hz Main Circuit 60 Hz Main Circuit DC
Rated Operational Current AC-1 ( $I_e$ )	(NO) 25 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 5.8 kW
Rated Operational Power AC-3 ( $P_e$ )	(230 V) Single Phase, NO 1.3 kW
Rated Operational Current AC-7a ( $I_e$ )	(NO) 25 A
Rated Operational Power AC-7a ( $P_e$ )	(230 V) Single Phase, NO 5.8 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) 500 V
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1.5 ... 10 mm <sup>2</sup> Flexible with Ferrule 2x 1.5 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1.5 ... 10 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.5 mm <sup>2</sup> Flexible 1x 1.5 ... 10 mm <sup>2</sup> Flexible 2x 1.5 ... 4 mm <sup>2</sup> Rigid 1x 1.5 ... 10 mm <sup>2</sup> Rigid 2x 1.5 ... 4 mm <sup>2</sup>
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 1 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1 mm <sup>2</sup> Flexible 1x 1 ... 2.5 mm <sup>2</sup> Flexible 2x 1 ... 1.5 mm <sup>2</sup> Rigid 1x 1 ... 4 mm <sup>2</sup> Rigid 2x 1 ... 2.5 mm <sup>2</sup>
Tightening Torque	Control Circuit 0.9 N·m Main Circuit 1 N·m
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection	IP20
Electrical Durability	AC-1 (NO) 130000 cycle AC-3 (NO) 500000 cycle AC-7a (NO) 130000 cycle AC-7b (NO) 500000 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	2
Pollution Degree	3
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1 IEC/EN 61095

## 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

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## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 480 V AC
Horsepower Rating UL/CSA	(220 ... 240 V AC) Single Phase, NO 1 Hp (440 ... 480 V AC) Single Phase, NO 2 Hp
Connecting Capacity Main Circuit UL/CSA	Solid 16-8 AWG Stranded 16-8 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 9 in-lb

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## Certificates and Declarations (Document Number)

CB Certificate	1SAA920004-2001
CCC Certificate	1SAA920002-3801
cULus Certificate	cUL E191658
Declaration of Conformity - CE	1SAD938502-0302
EAC Certificate	1SAA920001-2701
Instructions and Manuals	2CDC103043M6801
NF Certificate	1SAA920001-1201
RoHS Information	1SAD938501-0302

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## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	39 mm
Package Level 1 Height	92 mm
Package Level 1 Depth / Length	69.5 mm
Package Level 1 Gross Weight	0.23 kg
Package Level 1 EAN	4013614523939

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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

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## Categories

Low Voltage Products and Systems → Control Products → Contactors → Installation Contactors

Low Voltage Products and Systems → Modular DIN Rail Products → Modular DIN Rail Components MDRCs → Installation Contactors

