PRODUCT-DETAILS

ESB25-13N-02

ESB25-13N-02 Installation Contactor

General Information

Extended Product Type	ESB25-13N-02
Product ID	1SAE231111R0213
EAN	4013614517693
Catalog Description	ESB25-13N-02 Installation Contactor
Long Description	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. 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	4013614523991
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads

Instructions and Manuals	2CDC103043M6801

Dimensions

Product Net Width	36 mm
Product Net Height	85 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.245 kg

Technical

Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Control Circuit Voltage (U_c)	42 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)	(NC) 25 A (NO) 25 A
Rated Operational Current AC-3 (I_e)	(230 V) Single Phase, NC 6 A (230 V) Single Phase, NO 9 A (400 V) Three Phase, NC 6 A
Rated Operational Power AC-1 (P_e)	(230 V) Single Phase, NC 5.8 kW (400 V) Three Phase, NC 17.3 kW (230 V) Single Phase, NO 5.8 kW
Rated Operational Power AC-3 (P_e)	(230 V) Single Phase, NC 0.9 kW (230 V) Single Phase, NO 1.3 kW (400 V) Three Phase, NC 2.7 kW
Rated Operational Current AC-7a (I_e)	(NC) 25 A (NO) 25 A
Rated Operational Power AC-7a (P_e)	(230 V) Single Phase, NC 5.8 kW (230 V) Single Phase, NO 5.8 kW (400 V) Three Phase, NC 17.25 kW
Rated Operational Current AC-7b (I_e)	(230 V) Single Phase, NC 6 A (230 V) Single Phase, NO 9 A (400 V) Three Phase, NC 6 A
Rated Operational Power AC-7b (P_e)	(230 V) Single Phase, NC 0.9 kW (230 V) Single Phase, NO 1.3 kW (400 V) Three Phase, NC 2.7 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)	500 V
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1.5 ... 10 mm² Flexible with Ferrule 2x 1.5 ... 2.5 mm² Flexible with Insulated Ferrule 1x 1.5 ... 10 mm² Flexible with Insulated Ferrule 2x 1.5 mm² Flexible 1x 1.5 ... 10 mm² Flexible 2x 1.5 ... 4 mm² Rigid 1x 1.5 ... 10 mm² Rigid 2x 1.5 ... 4 mm²
Connecting Capacity Control Circuit	Flexible with Ferrule 1x 1 ... 2.5 mm² Flexible with Ferrule 2x 0.75 ... 1 mm² Flexible with Insulated Ferrule 1x 1 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 1 mm² Flexible 1x 1 ... 4.0 mm² Flexible 2x 1 ... 2.5 mm² Rigid 1x 1 ... 4 mm² Rigid 2x 1 ... 2.5 mm²
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	4
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Main Contacts NC	3
Number of Main Contacts NO	1
Width in Number of Modular Spacings	2
Pollution Degree	3
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 61095 UL 60947-1 UL 60947-4-1

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 480 V AC
Horsepower Rating UL/CSA	(220 ... 240 V AC) Single Phase, NC 1 Hp (220 ... 240 V AC) Single Phase, NO 1 Hp (220 ... 240 V AC) Three Phase, NC 3 Hp (440 ... 480 V AC) Single Phase, NC 0.5 Hp (440 ... 480 V AC) Single Phase, NO 2 Hp (440 ... 480 V AC) Three Phase, NC 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

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

Certificates and Declarations (Document Number)

ABS Certificate	1SAA920000-0101
CB Certificate	1SAA920004-2001
CQC Certificate	CQC2017010304993564 CQC2017010304993565
cULus Certificate	cUL_E191658
Declaration of	2020980304001312

Conformity - CCC	2020980304001314
Declaration of Conformity - CE	1SAD938506-0302
Declaration of Conformity - UKCA	1SAD938501-1302
DNV Certificate	1SAA920000-0306
EAC Certificate	1SAA920001-2702
Environmental Information	1SAC200063H0009
Instructions and Manuals	2CDC103043M6801
RINA Certificate	1SAA920000-0801
RMRS Certificate	1SAA920000-0705
RoHS Information	1SAD938506-0302

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	92 mm
Package Level 1 Height	69.5 mm
Package Level 1 Depth / Length	39 mm
Package Level 1 Gross Weight	0.245 kg
Package Level 1 EAN	4013614523991
Package Level 2 Units	60 piece
Package Level 2 Width	280 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	15.4 kg
Package Level 2 EAN	4013614538391

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

Categories

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

Low Voltage Products and Systems → Modular DIN Rail Products → Command and Signalling Devices → Installation Contactors


ABB
ESB25-40N