

ESB24-20-230AC/DC



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

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

General Information

Extended Product Type:	ESB24-20-230AC/DC
Product ID:	GHE3291402R0006
EAN:	4013614146756
Catalog Description:	ESB24-20-230AC/DC Installation Contactor
Long Description:	The ESB24 installation contactor is a 2 pole contactor suitable for modular switchboards. They are specially designed fitting to modular DIN rail products and for applications where customers want to use the panel design with high finger protection. Installation contactors are used in residential, commercial and industrial applications for the control of single or three-phase loads up to 24 A or switching of control signals. Further features are the noiseless and hum-free DC coil, the integrated overvoltage protection up to 5 kV and a switch position indication. Auxiliary contacts, distance pieces and sealing cover for protection against unauthorized changes are available as accessory.

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

Data Sheet, Technical Information:	2CDC103023C0201
Instructions and Manuals:	2CDC103025M6801

Dimensions

Product Net Width:	36 mm
Product Net Height:	85 mm
Product Net Depth:	65 mm
Product Net Weight:	0.225 kg

Technical

Rated Operational Voltage:	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Control Circuit Voltage (U_c):	230 V

Rated Frequency (f):	Control Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit 400 Hz Main Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
Rated Operational Current AC-1 (I_e):	(NC) 24 A (NO) 24 A
Rated Operational Current AC-3 (I_e):	(230 V) Single Phase 9 A (400 V) Three Phase 9 A
Rated Operational Power AC-1 (P_e):	(230 V) Single Phase 5.5 kW (400 V) Single Phase 16 kW
Rated Operational Power AC-3 (P_e):	(230 V) Single Phase 1.3 kW (400 V) Three Phase 4 kW
Rated Operational Current AC-7a (I_e):	(NC) 24 A (NO) 24 A
Rated Operational Power AC-7a (P_e):	(230 V) Single Phase 5.5 kW (400 V) Three Phase 16 kW
Rated Operational Current AC-7b (I_e):	(230 V) Single Phase 9 A (400 V) Three Phase 9 A
Rated Operational Power AC-7b (P_e):	(230 V) Single Phase 1.3 kW (400 V) Three Phase 4 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 ² Flexible with Insulated Ferrule 1x 1.5 ... 10 mm ² Flexible 1x 1.5 ... 10 mm ² Rigid 1x 1.5 ... 10 mm ² Rigid 2x 4 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Ferrule 2x 0.75 ... 1 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible 1x 1 ... 4.0 mm ² Flexible 2x 1 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² Rigid 2x 2.5 mm ²
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 150000 cycle AC-3 500000 cycle AC-7a 150000 cycle AC-7b 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 IEC/EN 60947-5-1 IEC/EN 61095 UL 60947-1 UL 60947-4-1

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
Resistance to Vibrations acc. to IEC 60068-2-6:	5g / 3 ... 150 Hz
RoHS Status:	Following EU Directive 2011/65/EU

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 480 V AC
Horsepower Rating UL/CSA:	(220 ... 240 V AC) Single Phase 3 Hp (440 ... 480 V AC) Three Phase 5 Hp
Connecting Capacity Main Circuit UL/CSA:	Stranded 16-8 AWG
Connecting Capacity Control Circuit UL/CSA:	Stranded 16-10 AWG
Tightening Torque UL/CSA:	Control Circuit 8 in·lb Main Circuit 9 in·lb

Certificates and Declarations (Document Number)

BV Certificate:	1SAA920000-0204
CB Certificate:	1SAA920000-2003
CCC Certificate:	1SAA920000-3805
cUL Certificate:	cUL E191658
Declaration of Conformity - CE:	1SAD938510-0007
DNV Certificate:	1SAA920000-0306
EAC Certificate:	1SAA920000-2702
Instructions and Manuals:	2CDC103025M6801
KC Certificate:	1SAA920001-1501
NF Certificate:	1SAA920000-1202
RMRS Certificate:	1SAA920000-0704
RoHS Information:	1SAD938509-0007_

Container Information

Package Level 1 Units:	5 piece
Package Level 1 Width:	89 mm
Package Level 1 Height:	69 mm
Package Level 1 Length:	183 mm
Package Level 1 Gross Weight:	1.17 kg
Package Level 1 EAN:	4013614420696

Classifications

Object Classification Code:	Q
ETIM 4:	EC001653 - Installation contactor for distribution board
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

