



 PRODUCT-DETAILS

ESB24-40-230AC/DC

ESB24-40-230AC/DC Installation Contactor (NC) 24 A - 4 NO - 0 NC - 230 ... 240 V - Control Circuit DC



General Information

Extended Product Type:	ESB24-40-230AC/DC
Product ID:	GHE3291102R0006
EAN:	4013614084454
Catalog Description:	ESB24-40-230AC/DC Installation Contactor (NC) 24 A - 4 NO - 0 NC - 230 ... 240 V - Control Circuit DC
Long Description:	The ESB24 installation contactor is a 4 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.
Display Name:	ESB24-40-230AC/DC

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

Data Sheet, Technical Information:	2CDC103051C0201
Instructions and Manuals:	2CDC103025M6801

Dimensions

Product Net Width:	36 mm
Product Net Depth / Length:	65 mm
Product Net Height:	85 mm
Product Net Weight:	0.235 kg

Technical

Number of Main Contacts NO:	4
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Poles:	4P
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
Rated Operational Voltage:	Main Circuit 220 V DC Main Circuit 400 V AC
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 Current AC-7a (I _e):	(NC) 24 A (NO) 24 A
Rated Operational Current AC-7b (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 Power AC-7a (P_e):	(230 V) Single Phase 5.5 kW (400 V) Three Phase 16 kW
Rated Operational Power AC-7b (P_e):	(230 V) Single Phase 1.3 kW (400 V) Three Phase 4 kW
Rated Breaking Capacity AC-3:	8 x I _e / AC-3
Rated Making Capacity AC-3:	10 x I _e / AC-3
Rated Short-time Withstand Current Low Voltage (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 72 A
Rated Insulation Voltage (U_i):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 500 V
Rated Impulse Withstand Voltage (U_{imp}):	6 kV
Electrical Durability:	AC-1 150000 cycle AC-3 500000 cycle AC-7a 150000 cycle AC-7b 500000 cycle
Maximum Electrical Switching Frequency:	(AC-1) 300 cycles per hour (AC-3) 600 cycles per hour (AC-7a) 300 cycles per hour (AC-7b) 600 cycles per hour
Mechanical Durability:	Nr. Operations 1000000 cycle
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 ... 1.1 x U _c (at θ ≤ 55 °C)
Rated Control Circuit Voltage (U_c):	230 ... 240 V
Coil Consumption:	Average Holding Value 50 Hz 4 V·A Average Pull-in Value 50 Hz 4 V·A
Power Loss:	at Rated Operating Conditions AC-1 per Pole 3 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
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
Wire Stripping Length:	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection:	IP20
Recommended Screw Driver:	Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
Tightening Torque:	Control Circuit 0.9 N·m Main Circuit 1 N·m
Terminal Type:	Screw Terminals
Width in Number of Modular Spacings:	2
Product Name:	Installation Contactor
Remarks:	Installation contactor, noiseless/humfree, high insulation, reliable function, long life

Technical UL/CSA

General Use Rating UL/CSA:	(acc. to UL 240 V) 24 A (acc. to UL 480 V) 24 A
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
Full Load Amps Motor Use:	(220 ... 240 V AC) Single Phase 9.6 A (440 ... 480 V AC) Three Phase 7.6 A

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:	5g 3 ... 150 Hz
Pollution Degree:	3

Material Compliance

Conflict Minerals Reporting Template (CMRT):	9AKK108467A5658
REACH Declaration:	2CMT2021-006202
RoHS Declaration:	2CMT2021-006277
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA:	2CMT2023-006525
WEEE B2C / B2B:	Business To Consumer
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

BV Certificate:	1SAA920000-0204
CB Certificate:	1SAA920000-2003
CQC Certificate:	CQC2003010304064076
Declaration of Conformity - CCC:	2020980304001308
Declaration of Conformity - CE:	1SAD938513-0007
DNV Certificate:	1SAA920000-0306
KC Certificate:	1SAA920001-1501
NF Certificate:	1SAA920000-1202
UL Certificate:	E191658-19960301

Container Information

Package Level 1 Units:	carton 5 piece
Package Level 1 Width:	89 mm
Package Level 1 Depth / Length:	183 mm
Package Level 1 Height:	69 mm
Package Level 1 Gross Weight:	1.22 kg
Package Level 1 EAN:	4013614420337

External Classifications and Standards

Object Classification Code:	Q
ETIM 7:	EC001653 - Installation contactor for distribution board
ETIM 8:	EC001653 - Installation contactor for distribution board
ETIM 9:	EC001653 - Installation contactor for distribution board
eClass:	V11.0 : 27142308
UNSPSC:	39121529
IDEA Granular Category Code (IGCC):	4759 >> Installation contactor for distribution board
E-Number (Finland):	3709407

Categories

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

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

