## ESB40-40-230AC/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:
 ESB40-40-230AC/DC

 Product ID:
 GHE3491102R0006

 EAN:
 4013614084867

Catalog Description: ESB40-40-230AC/DC Installation Contactor

Long Description: The ESB40 installation contactor is a 4 pole contactor suitable for modular switchboards. T

hey are specially designed fitting to modular DIN rail products and for applications where c ustomers want to use the panel design with high finger protection. Installation contactors ar e used in residential, commercial and industrial applications for the control of single or thre e-phase loads up to 40 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 positio n indication. Auxiliary contacts, distance pieces and sealing cover for protection against un

authorized changes are available as accessory.

## Additional Information

Ambient Air Temperature:	Operation -25 +55 °C Storage -40 +80 °C
Ampere Rating UL/CSA:	21 A
BV Certificate:	1SAA920000-0204
Built-In Depth (t <sub>2</sub> ):	58 mm
CB Certificate:	1SAA920001-2003
CCC Certificate:	1SAA920000-3804
CEBEC Certificate:	1SAA920001-2001
Coil Consumption:	Average Holding Value 50 Hz 5 V·A Average Pull-in Value 50 Hz 5 V·A
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 1.1 x Uc (at θ ≤ 55 °C)
Connecting Capacity Control Circuit:	Rigid 1/2x 1 4 mm² Rigid 2x 2.5 mm²
Connecting Capacity Control Circuit UL/CSA:	Stranded 16-10 AWG
Connecting Capacity Main Circuit:	Flexible with Ferrule 1x 1.5 16 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1.5 16 mm <sup>2</sup> Flexible 1x 1.5 16 mm <sup>2</sup> Rigid 1x 1.5 25 mm <sup>2</sup> Rigid 2x 10 mm <sup>2</sup>
Connecting Capacity Main Circuit UL/CSA:	Stranded 16-4 AWG
Country of Origin:	Germany (DE)
Customs Tariff Number:	85365080
DNV Certificate:	1SAA920000-0305
Declaration of Conformity - CE:	1SAD938509-0007_
Degree of Protection:	IP20
Drop-out Voltage in %of Uc:	10 75
E-nummer:	3225054
EAC Certificate:	1SAA920000-2702
EAN:	4013614084867
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / Contactors
ETIM 4:	EC001653 - Installation contactor for distribution board
ETIM 5:	FC001653 - Installation contactor for distribution board

	EGGG 1000 Indianation contactor for algebration board
ЕПМ 6:	EC001653 - Installation contactor for distribution board
Electrical Durability:	AC-1 150000 cycle
	AC-3 170000 cycle
	AC-7a 150000 cycle AC-7b 170000 cycle
Environmental Information:	1SAA920002-2401
Frequency (f):	40 450 Hz
Full Load Amps Motor Use:	(220 240 V AC) Single Phase 22 A (440 480 V AC) Three Phase 21 A
Fuse Type:	Class K5 - 40 A
GL Certificate:	1SAA920000-0403
General Use Rating UL/CSA:	(acc. to UL 480 V) 40 A
Horsepower Rating UL/CSA:	(220 240 V AC) Single Phase 7.5 Hp (440 480 V AC) Three Phase 15 Hp
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	2CDC103025M6801
Invoice Description:	ESB40-40-230AC/DC Instcontactor 4NO 230V
KC Certificate:	1SAA920001-1501
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour
	AC-3 600 cycles per hour AC-7a 300 cycles per hour
	AC-7a 300 cycles per flour  AC-7b 600 cycles per hour
Maximum Electrical Switching Frequency	General Use 300 cycles per hour
UL/CSA:	Motor Use 600 cycles per hour
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 480 V AC
Maximum Operating Voltage UL/CSA:  Mechanical Durability:	Main Circuit 480 V AC 1000000 cycle
Mechanical Durability:	1000000 cycle
Mechanical Durability: Minimum Order Quantity:	1000000 cycle 1 piece
Mechanical Durability: Minimum Order Quantity: Mounting Position:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NO:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NO:  Number of Main Contacts NC:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NO:  Number of Main Contacts NC:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0  0  4
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NC:  Number of Main Contacts NC:  Number of Main Contacts NO:  Number of Poles:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0  4  4
Mechanical Durability: Minimum Order Quantity: Mounting Position: Mounting on DIN Rail:  NF Certificate: Number of Auxiliary Contacts NC: Number of Auxiliary Contacts NO: Number of Main Contacts NC: Number of Main Contacts NO: Number of Poles: Object Classification Code:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0  4  4  Q
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NC:  Number of Main Contacts NC:  Number of Main Contacts NC:  Number of Poles:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0  0  4  4  4  Q  40 450 Hz
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NO:  Number of Main Contacts NC:  Number of Main Contacts NO:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0  0  4  4  Q  40 450 Hz  4013614421082
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NC:  Number of Main Contacts NC:  Number of Main Contacts NC:  Number of Poles:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:  Package Level 1 Gross Weight:	1 piece Position 1 to 5 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 1SAA920000-1202 0 0 4 4 4 Q 40 450 Hz 4013614421082 1.26 kg
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NO:  Number of Main Contacts NC:  Number of Main Contacts NO:  Number of Poles:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:  Package Level 1 Height:	1 piece Position 1 to 5 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 1SAA920000-1202 0 0 0 4 4 Q 40 450 Hz 4013614421082 1.26 kg 69 mm
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NC:  Number of Main Contacts NC:  Number of Main Contacts NC:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Length:	1 piece Position 1 to 5 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 1SAA920000-1202 0 0 0 4 4 4 Q 40 450 Hz 4013614421082 1.26 kg 69 mm 165 mm
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NC:  Number of Main Contacts NC:  Number of Main Contacts NC:  Number of Poles:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Length:  Package Level 1 Units:	1 piece Position 1 to 5 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 1\$AA920000-1202 0 0 0 4 4 4 Q 40 450 Hz 4013614421082 1.26 kg 69 mm 165 mm 3 piece
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NO:  Number of Main Contacts NC:  Number of Main Contacts NO:  Number of Poles:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Length:  Package Level 1 Units:  Package Level 1 Width:	1 piece Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202 0 0 0 4 4 4 Q 40 450 Hz 4013614421082 1.26 kg 69 mm 165 mm 3 piece 89 mm
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NC:  Number of Main Contacts NC:  Number of Main Contacts NC:  Number of Poles:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Units:  Package Level 1 Units:  Package Level 1 Width:  Pollution Degree:	1 piece Position 1 to 5 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 1SAA920000-1202 0 0 0 4 4 4 Q 40 450 Hz 4013614421082 1.26 kg 69 mm 165 mm 3 piece 89 mm 3
Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  NF Certificate:  Number of Auxiliary Contacts NC:  Number of Auxiliary Contacts NC:  Number of Main Contacts NC:  Number of Main Contacts NC:  Number of Poles:  Object Classification Code:  Operating Frequency (f <sub>sw</sub> ):  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Length:  Package Level 1 Units:  Package Level 1 Width:  Pollution Degree:  Power Loss:	1000000 cycle  1 piece  Position 1 to 5  TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715  1SAA920000-1202  0  0  4  4  Q  40 450 Hz  4013614421082  1.26 kg  69 mm  165 mm  3 piece  89 mm  3  at Rated Operating Conditions per Pole 4 W

Product Net Height:	85 mm
Product Net Weight:	0.405 kg
Product Net Width:	54 mm
RMRS Certificate:	1SAA920000-0704
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x le / AC-3
Rated Control Circuit Voltage (U <sub>c</sub> ):	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 Impulse Withstand Voltage (U <sub>imp</sub> ):	6 kV
Rated Insulation Voltage (U <sub>i</sub> ):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 500 V
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x le / AC-3
Rated Operational Current AC-1 (I <sub>e</sub> ):	(NC) 30 A (NO) 40 A
Rated Operational Current AC-3 (I <sub>e</sub> ):	(230 V) Single Phase 22 A (400 V) Three Phase 22 A
Rated Operational Current AC-7a (I <sub>e</sub> ):	(NC) 30 A (NO) 40 A
Rated Operational Current AC-7b (I <sub>e</sub> ):	(230 V) Single Phase 22 A (400 V) Three Phase 22 A
Rated Operational Power AC-1 (P <sub>e</sub> ):	(230 V) Single Phase 9.2 kW (400 V) Single Phase 26 kW
Rated Operational Power AC-3 (P <sub>e</sub> ):	(230 V) Single Phase 3.7 kW (400 V) Three Phase 11 kW
Rated Operational Power AC-7a (P <sub>e</sub> ):	(230 V) Single Phase 9.2 kW (400 V) Three Phase 26 kW
Rated Operational Power AC-7b (P <sub>e</sub> ):	(230 V) Single Phase 3.7 kW (400 V) Three Phase 11 kW
Rated Operational Voltage:	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Short-time Withstand Current (I <sub>cw</sub> ):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 176 A
Recommended Screw Driver:	Control Circuit Pozidriv 1 Main Circuit Pozidriv 2
Remarks:	Installation contactor, noiseless/humfree, high insulation, reliable function, long life
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 Date:	0456
RoHS Information:	1SAD938509-0007_
RoHS Status:	Following EU Directive 2011/65/EC
Selling Unit of Measure:	piece
Short Description:	ESB40-40-230AC/DC Instcontactor 4NO
Short-Circuit Protective Devices:	gG Type Fuses 63 A
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 IEC/EN 61095

UL 60947-4-1 Terminal Type: Screw Terminals Tightening Torque: Control Circuit 0.9 N·m Main Circuit 2.5 N·m Tightening Torque UL/CSA: Control Circuit 8 in·lb Main Circuit 20 in·lb UNSPSC: 39121529 **Utilization Category:** AC-1 AC-3 AC-7a AC-7b Width in Number of Modular Spacings: 3 Wire Stripping Length: Control Circuit 7 mm Main Circuit 13 mm cUL Certificate: cUL E191658 eClass:

UL 60947-1

