

# ESB40-20-230AC/DC



## General Information

<b>Extended Product Type:</b>	ESB40-20-230AC/DC
<b>Product ID:</b>	GHE3491402R0006
<b>EAN:</b>	4013614085314
<b>Catalog Description:</b>	ESB40-20-230AC/DC Installation Contactor
<b>Long Description:</b>	The ESB40 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 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 position indication. Auxiliary contacts, distance pieces and sealing cover for protection against unauthorized changes are available as accessory.

## Categories

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

## Accessories

Identifier	Description	Type	Qty
<a href="#">GHE3401321R0001</a>	EH04-20 Auxiliary Contact	EH04-20	1
<a href="#">GHE3401321R0002</a>	EH04-11 Auxiliary Contact	EH04-11	1
<a href="#">GHE3401903R0001</a>	ESB-PLK40/63 Sealing Cover	ESB-PLK40/63	1
<a href="#">GHE3201902R0001</a>	ESB-DIS Distance Piece	ESB-DIS	1

## Ordering

<b>EAN:</b>	4013614085314
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85365080

## Container Information

<b>Package Level 1 Units:</b>	3 piece
<b>Package Level 1 Width:</b>	89.0 mm
<b>Package Level 1 Height:</b>	69.0 mm
<b>Package Level 1 Length:</b>	165.0 mm
<b>Package Level 1 Gross Weight:</b>	1.155 kg
<b>Package Level 1 EAN:</b>	4013614421204

## Dimensions

<b>Product Net Width:</b>	54.0 mm
<b>Product Net Height:</b>	85.0 mm
<b>Product Net Depth:</b>	65.0 mm
<b>Product Net Weight:</b>	0.370 kg

## Technical

<b>Rated Frequency (f):</b>	Control Circuit DC Control Circuit 50 Hz Control Circuit 60 Hz Control Circuit 400 Hz
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	Main Circuit DC
	Main Circuit 50 Hz
	Main Circuit 60 Hz
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(NC) 30 A (NO) 40 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(230V) Single Phase 22 A (400V) Three Phase 22 A
<b>Rated Operational Power AC-1 (<math>P_e</math>):</b>	230V Single Phase 9.20 kW 400V Three Phase 26.00 kW
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(230V) Single Phase 3.70 kW (400V) Three Phase 11.00 kW
<b>Rated Operational Current AC-7a (<math>I_e</math>):</b>	(NC) 30 A (NO) 40 A
<b>Rated Operational Power AC-7b (<math>P_e</math>):</b>	(230 V) Single Phase 3.70 kW (400 V) Three Phase 11.00 kW
<b>Recommended Screw Driver:</b>	Control Circuit Pozidriv 1 Main Circuit Pozidriv 2
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	6 kV
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 500 V acc. to UL/CSA 600 V
<b>Connecting Capacity-Main Circuit:</b>	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>
<b>Tightening Torque:</b>	Auxiliary Circuit 0.9 N·m Control Circuit 0.9 N·m Main Circuit 2.5 N·m
<b>Wire Stripping Length:</b>	Control Circuit 7 mm Main Circuit 13 mm
<b>Degree of Protection:</b>	IP20
<b>Electrical Durability:</b>	AC-1 150000 cycle AC-3 170000 cycle AC-7a 150000 cycle AC-7b 170000 cycle
<b>Mechanical Durability:</b>	1000000 cycle
<b>Number of Poles:</b>	2
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	2
<b>Width in Number of Modular Spacings:</b>	3
<b>Pollution Degree:</b>	3
<b>Standards:</b>	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

<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +80 °C
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 150 m/s <sup>2</sup>
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 3 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 480 V AC
Horse Power Rating UL/CSA:	220 ... 240V AC Single Phase 7.50 Hp 440 ... 480V AC Three Phase 15.00 Hp
Connecting Capacity-Main Circuit UL/CSA:	Stranded 16 ... 4 AWG
Tightening Torque UL/CSA:	Control Circuit 8 in·lb Main Circuit 20 in·lb

Certificates and Declarations (Document Number)

BV Certificate:	1SAA920000-0203
CB Certificate:	1SAA920001-2003
CCC Certificate:	1SAA920000-3802
CEBEC Certificate:	1SAA920001-2001
cUL Certificate:	1SAA920000-1701
Declaration of Conformity - CE:	1SAD938507-0007
DNV Certificate:	1SAA920000-0305
EAC Certificate:	1SAA920000-2702
GL Certificate:	1SAA920000-0403
RMRS Certificate:	1SAA920000-0703
RoHS Information:	1SAA920005-4401
UL Certificate:	1SAA920000-1603

Classifications

Object Classification Code:	Q
ETIM 4.0:	EC001653 - Installation contactor for distribution board
ETIM 5.0:	EC001653 - Installation contactor for distribution board

