



PRODUCT-DETAILS

ESB40-40N-06

ESB40-40N-06 Installation Contactor (NO) 40 A - 4 NO - 0 NC - 230 V - Control Circuit 400 Hz



General Information

Extended Product Type:	ESB40-40N-06
Product ID:	1SAE341111R0640
EAN:	4013614518515
Catalog Description:	ESB40-40N-06 Installation Contactor (NO) 40 A - 4 NO - 0 NC - 230 V - Control Circuit 400 Hz
Long Description:	<p>The ESB40..N installation contactors are used to control single and three-phase loads up to 40 A and can be operated by AC or DC.</p> <p>These contactors are made for use in household applications as well as in industrial environments.</p> <p>The following benefits are provided:</p> <p>Hum-free operation, low power consumption and integrated overvoltage protection.</p> <p>Various contact combinations and accessories are available.</p>
Display Name:	ESB40-40N-06

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85365080

Popular Downloads

EPLAN Data:	9AAC404718_EPLAN
Data Sheet, Technical Information:	2CDC103051C0201
Instructions and Manuals:	2CDC103043M6801
CAD Dimensional Drawing:	2CDC001079B0201

Dimensions

Product Net Width:	54 mm
Product Net Depth / Length:	65 mm
Product Net Height:	85 mm
Product Net Weight:	0.405 kg

Technical

Number of Main Contacts NO:	4
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Auxiliary Contacts NC:	0
Number of Poles:	4P
Standards:	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 61095 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L
Rated Operational Voltage:	Main Circuit 220 V DC Main Circuit 400 V AC
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):	(NO) 40 A
Rated Operational Current AC-3 (I_e):	(230 V) Single Phase, NO 22 A (400 V) Three Phase, NO 22 A
Rated Operational Current AC-7a (I_e):	(NO) 40 A
Rated Operational Current AC-7b (I_e):	(230 V) Single Phase, NO 22 A (400 V) Three Phase, NO 22 A
Rated Operational Power AC-1 (P_e):	(230 V) Single Phase, NO 9.2 kW (400 V) Three Phase, NO 27.7 kW
Rated Operational Power AC-3 (P_e):	(230 V) Single Phase, NO 3.7 kW (400 V) Three Phase, NO 11 kW
Rated Operational Power AC-7a (P_e):	(230 V) Single Phase, NO 9.2 kW (400 V) Three Phase, NO 27.7 kW

Rated Operational Power AC-7b (P_e):	(230 V) Single Phase, NO 3.7 kW (400 V) Three Phase, NO 11 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 176 A
Rated Insulation Voltage (U_i):	500 V
Rated Impulse Withstand Voltage (U_{imp}):	6 kV
Electrical Durability:	AC-1 (NO) 150000 cycle AC-3 (NO) 100000 cycle AC-7a (NO) 150000 cycle AC-7b (NO) 100000 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 V
Coil Consumption:	Average Holding Value 50 / 60 Hz 4.5 V·A Average Holding Value DC 5 W Average Pull-in Value 50 Hz 4.5 V·A Average Pull-in Value 60 Hz 4.5 V·A Average Pull-in Value DC 5 W
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 ... 16 mm ² Flexible with Ferrule 2x 1.5 ... 10 mm ² Flexible with Insulated Ferrule 1x 1.5 ... 16 mm ² Flexible with Insulated Ferrule 2x 1.5 ... 10 mm ² Flexible 1x 1.5 ... 16 mm ² Flexible 2x 1.5 ... 10 mm ² Rigid 1x 1.5 ... 25 mm ² Rigid 2x 1.5 ... 10 mm ²
Connecting Capacity Control Circuit:	Flexible with Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1 mm ² Flexible 1x 1 ... 4.0 mm ² Flexible 2x 1 ... 2.5 mm ² Rigid 1x 1 ... 4 mm ² Rigid 2x 1 ... 2.5 mm ²
Wire Stripping Length:	Control Circuit 7 mm Main Circuit 13 mm
Degree of Protection:	IP20
Recommended Screw Driver:	Control Circuit Pozidriv 1 Main Circuit Pozidriv 2
Tightening Torque:	Control Circuit 0.9 N·m Main Circuit 2.5 N·m
Terminal Type:	Screw Terminals
Width in Number of Modular Spacings:	3
Product Name:	Installation Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 480 V AC
General Use Rating UL/CSA:	(acc. to UL 240 V) 40 A (acc. to UL 480 V) 40 A
Horsepower Rating UL/CSA:	(220 ... 240 V AC) Single Phase, NO 3 Hp (220 ... 240 V AC) Three Phase, NO 7.5 Hp (440 ... 480 V AC) Single Phase, NO 7.5 Hp (440 ... 480 V AC) Three Phase, NO 15 Hp
Connecting Capacity Main Circuit UL/CSA:	Solid 16-4 AWG Stranded 16-4 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 20 in-lb
Full Load Amps Motor Use:	(220 ... 240 V AC) Single Phase, NO 22 A (220 ... 240 V AC) Three Phase, NO 22 A (440 ... 480 V AC) Single Phase, NO 21 A (440 ... 480 V AC) Three Phase, NO 21 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
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)

ABB EcoSolutions

ABB EcoSolutions:	Yes
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
EcoSolutions Profile:	1SFC100125C0336
End Of Life Disassembling Instructions:	1SBC100156C0267
Environmental Product Declaration - EPD:	1SAC200433H0001

Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 94.1 %

Certificates and Declarations

A2L Certificate – IEC:	1SAA920000-4601
ABS Certificate:	1SAA920000-0101
CB Certificate:	1SAA920005-2001
CCC Certificate:	2024010304659840 2024010304658955
Declaration of Conformity - CE:	1SAD101100-3301
Declaration of Conformity - UKCA:	1SAD201100-3301
DNV Certificate:	1SAA920000-0306
NF Certificate:	1SAA920001-1202
RINA Certificate:	1SAA920000-0801
UL Certificate:	E191658-19960301

Container Information

Package Level 1 Units:	box 1 piece
Package Level 1 Width:	92 mm
Package Level 1 Depth / Length:	57 mm
Package Level 1 Height:	69.5 mm
Package Level 1 Gross Weight:	0.405 kg
Package Level 1 EAN:	4013614524820
Package Level 2 Units:	32 piece
Package Level 2 Width:	280 mm
Package Level 2 Depth / Length:	395 mm
Package Level 2 Height:	210 mm
Package Level 2 Gross Weight:	12.96 kg
Package Level 2 EAN:	4013614539213

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):	3707581
E-Number (Norway):	4190279
E-Number (Sweden):	3210571

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
1SAE901901R1011	EH04-11N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	EH04-11N	1	piece
1SAE901901M1011	EH04-11N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	EH04-11N	1	piece
1SAE901901R1020	EH04-20N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	EH04-20N	1	piece
1SAE901901M1020	EH04-20N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz	EH04-20N	1	piece
GHE3401903R0001	ESB-PLK40/63 Sealing Cover	ESB-PLK40/63	1	piece
GHE3201902R0001	ESB-DIS Distance Piece	ESB-DIS	1	piece

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

