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ESB40-20N-06

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General Information

Extended Product Type:

ESB40-20N-06

Product ID:

1SAE341111M0620

Catalog Description:

ESB40-20N-06 Installation Contactor (NO) 40 A - 2 NO - 0 NC - 230 V - Control Circuit 400 Hz

Long Description:

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.

These contactors are made for use in household applications as well as in industrial environments.

The following benefits are provided:

Hum-free operation, low power consumption and integrated overvoltage protection.

Various contact combinations and accessories are available.

[Data Sheet](#)

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[Classifications](#)

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Go To Section:[Ordering](#)[Popular Downloads](#)[Dimensions](#)[Technical](#)[Technical UL/CSA](#)[Environmental](#)[Material Compliance](#)[Certificates and Declarations](#)[Container Information](#)[Classifications](#)[Accessories](#)**Ordering****Package Level 1 EAN:**4013614520228

Minimum Order Quantity:4 piece

Customs Tariff Number:85365080

Popular Downloads**Data Sheet, Technical Information:**[2CDC103051C0201](#)

Instructions and Manuals:[2CDC103043M6801](#)

CAD Dimensional Drawing:[2CDC001079B0201](#)

Dimensions**Product Net Width:**54 mm

Product Net Height:85 mm

Product Net Depth / Length:65 mm

Product Net Weight:0.37 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 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

Rated Operational Power AC-1 (P_e):

(230 V) Single Phase, NO 9.2 kW

Rated Operational Power AC-3 (P_e):

(230 V) Single Phase, NO 3.7 kW

Rated Operational Current AC-7a (I_e):

(NO) 40 A

Rated Operational Power AC-7a (P_e):

(230 V) Single Phase, NO 9.2 kW

Rated Operational Current AC-7b (I_e):

(230 V) Single Phase, NO 22 A

Rated Operational Power AC-7b (P_e):

(230 V) Single Phase, NO 3.7 kW

Recommended Screw Driver:

Control Circuit Pozidriv 1
Main Circuit Pozidriv 2

Rated Impulse Withstand Voltage (U_{imp}):

6 kV

Rated Insulation Voltage (U_i):

500 V

Connecting Capacity Main Circuit:

Flexible with Ferrule 1x 1.5 ... 16 mm²
Flexible with Ferrule 2x 1.5 ... 10 mm²
Flexible with Insulated Ferrule 1x 1.5 ... 16 mm²
Flexible with Insulated Ferrule 2x 1.5 ... 10 mm²
Flexible 1x 1.5 ... 16 mm²
Flexible 2x 1.5 ... 10 mm²
Rigid 1x 1.5 ... 25 mm²
Rigid 2x 1.5 ... 10 mm²

Connecting Capacity Control Circuit:

Flexible with Ferrule 1x 0.75 ... 2.5 mm²
Flexible with Ferrule 2x 0.75 ... 1.5 mm²
Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²
Flexible with Insulated Ferrule 2x 0.75 ... 1 mm²
Flexible 1x 1 ... 4.0 mm²
Flexible 2x 1 ... 2.5 mm²

Rigid 1x 1 ... 4 mm²
Rigid 2x 1 ... 2.5 mm²

Tightening Torque:

Control Circuit 0.9 N·m
Main Circuit 2.5 N·m

Wire Stripping Length:

Control Circuit 7 mm
Main Circuit 13 mm

Degree of Protection:

IP20

Electrical Durability:

AC-1 (NO) 150000 cycle
AC-3 (NO) 100000 cycle
AC-7a (NO) 150000 cycle
AC-7b (NO) 100000 cycle

Mechanical Durability:

1000000 cycle

Number of Poles:

2

Number of Auxiliary Contacts NC:

0

Number of Auxiliary Contacts NO:

0

Number of Main Contacts NC:

0

Number of Main Contacts NO:

2

Width in Number of Modular Spacings:

3

Pollution Degree:

3

Standards:

IEC/EN 60947-1
IEC/EN 60947-4-1
IEC/EN 61095
UL 60947-1
UL 60947-4-1

Technical UL/CSA**Maximum Operating Voltage UL/CSA:**

Main Circuit 480 V AC

Horsepower Rating UL/CSA:

(220 ... 240 V AC) Single Phase, NO 3 Hp
(440 ... 480 V AC) Single Phase, NO 7.5 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

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

RoHS Status:

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Material Compliance**Conflict Minerals Reporting Template (CMRT):**

[9AKK108467A5658](#)

REACH Declaration:

[2CMT2021-006202](#)

RoHS Information:

[2CMT2021-006277](#)

RoHS Status:

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**A2L Certificate – IEC:**

[1SAA920000-4601](#)

ABS Certificate:

[1SAA920000-0101](#)

CB Certificate:

[1SAA920005-2001](#)

CQC Certificate:

[CQC2017010304993562](#)
[CQC2017010304993563](#)

Declaration of Conformity - CCC:

[2020980304001310](#)
[2020980304001313](#)

Declaration of Conformity - CE:1SAD101100-3301**Declaration of Conformity - UKCA:**1SAD201100-3301**DNV Certificate:**1SAA920000-0306**EAC Certificate:**1SAA920001-2702**RINA Certificate:**1SAA920000-0801**RMRS Certificate:**1SAA920000-0705**UL Certificate:**E191658-19960301**Container Information****Package Level 1 Units:**

box 4 piece

Package Level 1 Width:

88 mm

Package Level 1 Height:

69.5 mm

Package Level 1 Depth / Length:

222 mm

Package Level 1 Gross Weight:

1.48 kg

Package Level 1 EAN:

4013614520228

Package Level 2 EAN:

4013614567605

Classifications**Object Classification Code:**

Q

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:

V11.0 : 27142308

UNSPSC:

39121529

IDEA Granular Category Code (IGCC):

4759 >> Installation contactor for distribution board

ETIM 8:

EC001653 - Installation contactor for distribution board

Accessories**Filters**

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6 Products

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

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