

PRODUCT-DETAILS

# ESB25-20N-01

# ESB25-20N-01 Installation Contactor (NO) 25 A - 2 NO - 0 NC - 24 V - Control Circuit 400 Hz



#### **General Information**

Extended Product Type	ESB25-20N-01
Product ID	1SAE231111R0120
EAN	4013614517631
Catalog Description	ESB25-20N-01 Installation Contactor (NO) 25 A - 2 NO - 0 NC - 24 V - Control Circuit 400 Hz
	The ESB25N installation contactors are used to control single and three-phase loads up to 25 A and can be operated by AC or DC.
Long Description	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.

Ordering	
Package Level 1 EAN	4013614523939
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080

Popular Downloads
Data Shoot Technical

Data Sheet, Technical

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2CDC103051C0201

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Information	
Instructions and	2CDC103043M6801
Manuals	
CAD Dimensional	2CDC001079B0201
Drawing	

Dimensions	
Product Net Width	36 mm
Product Net Height	85 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.23 kg

Technical	
Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Control Circuit Voltage (U <sub>c</sub> )	24 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
Rated Operational Current AC-1 (I <sub>e</sub> )	Main Circuit DC (NO) 25 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-1 (P <sub>e</sub> )	(230 V) Single Phase, NO 5.8 kW
Rated Operational Power AC-3 (P <sub>e</sub> )	(230 V) Single Phase, NO 1.3 kW
Rated Operational Current AC-7a (I <sub>e</sub> )	(NO) 25 A
Rated Operational Power AC-7a (P <sub>e</sub> )	(230 V) Single Phase, NO 5.8 kW
Rated Operational Current AC-7b (I <sub>e</sub> )	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-7b (P <sub>e</sub> )	(230 V) Single Phase, NO 1.3 kW
Recommended Screw Driver	Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	6 kV
Rated Insulation Voltage (Ui)	500 V
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1.5 10 mm <sup>2</sup> Flexible with Ferrule 2x 1.5 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1.5 10 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1.5 mm <sup>2</sup> Flexible 1x 1.5 10 mm <sup>2</sup> Flexible 2x 1.5 4 mm <sup>2</sup> Rigid 1x 1.5 10 mm <sup>2</sup> Rigid 2x 1.5 4 mm <sup>2</sup>
Connecting Capacity	Flexible with Ferrule 1x 1 2.5 mm <sup>2</sup>

Connecting Capacity Control Circuit Rigid 1x 1.5 ... 10 mm² Rigid 2x 1.5 ... 4 mm² Flexible with Ferrule 1x 1 ... 2.5 mm² Flexible with Ferrule 2x 0.75 ... 1 mm² Flexible with Insulated Ferrule 1x 1 ... 2.5 mm²

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	Flexible with Insulated Ferrule 2x 0.75 1 mm <sup>2</sup> Flexible 1x 1 4.0 mm <sup>2</sup> Flexible 2x 1 2.5 mm <sup>2</sup> Rigid 1x 1 4 mm <sup>2</sup> Rigid 2x 1 2.5 mm <sup>2</sup>
Tightening Torque	Control Circuit 0.9 N·m Main Circuit 1 N·m
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection	IP20
Electrical Durability	AC-1 (NO) 130000 cycle AC-3 (NO) 500000 cycle AC-7a (NO) 130000 cycle AC-7b (NO) 500000 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	2
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	Main Circuit 480 V AC
Voltage UL/CSA	
Horsepower Rating UL/CSA	(220 240 V AC) Single Phase, NO 1 Hp (440 480 V AC) Single Phase, NO 2 Hp
Connecting Capacity Main Circuit UL/CSA	Solid 16-8 AWG Stranded 16-8 AWG

Main Circuit UL/CSA **Connecting Capacity** Control Circuit UL/CSA Stranded 16-10 AWG Tightening Torque Control Circuit 8 in·lb UL/CSA

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

2024/03/25

I	aterial Compliance
	nflict Minerals

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Solid 16-10 AWG

Main Circuit 9 in·lb

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Reporting Template (CMRT)	
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	
ABS Certificate	1SAA920000-0101
CB Certificate	1SAA920004-2001
CQC Certificate	CQC2017010304993564 CQC2017010304993565
Declaration of Conformity - CCC	2020980304001312 2020980304001314
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	1 piece
Package Level 1 Width	92 mm
Package Level 1 Height	69.5 mm
Package Level 1 Depth / Length	39 mm
Package Level 1 Gross Weight	0.23 kg
Package Level 1 EAN	4013614523939
Package Level 2 Units	48 piece
Package Level 2 Width	280 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	11.5 kg
Package Level 2 EAN	4013614538339

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			

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UNSPSC	39121529	
IDEA Granular Category Code (IGCC)	4759 >> Installation contactor for distribution board	
ETIM 8	EC001653 - Installation contactor for distribution board	

## Accessories

Identifier 1SAE901901R1011	Description	Type Quantity		Unit Of Measure
	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
GHE3201903R0001	ESB-PLK24 Sealing Cover	ESB-PLK24	1	piece
GHE3201902R0001	ESB-DIS Distance Piece	ESB-DIS	1	piece

## Categories

Low Voltage Products and Systems  $\rightarrow$  Control Products  $\rightarrow$  Contactors  $\rightarrow$  Installation Contactors

 ${\sf Low \ Voltage \ Products \ and \ Systems \ \rightarrow \ Modular \ DIN \ Rail \ Products \ \rightarrow \ Command \ and \ Signalling \ Devices \ \rightarrow \ Installation \ Contactors \ And \ A$ 

