



PRODUCT-DETAILS

ESB25-22N-04

ESB25-22N-04 Installation Contactor (NC) 25 A - 2 NO - 2 NC - 110 ... 120 V - Control Circuit 400 Hz



General Information	
Extended Product Type	ESB25-22N-04
Product ID	1SAE231111M0422
Catalog Description	ESB25-22N-04 Installation Contactor (NC) 25 A - 2 NO - 2 NC - 110 ... 120 V - Control Circuit 400 Hz
Long Description	The ESB25..N installation contactors are used to control single and three-phase loads up to 25 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.

Ordering	
Package Level 1 EAN	4013614519604
Minimum Order Quantity	6 piece
Customs Tariff Number	85365080

Popular Downloads	
Data Sheet, Technical Information	2CDC103051C0201
Instructions and Manuals	2CDC103043M6801
CAD Dimensional Drawing	2CDC001079B0201

Dimensions	
Product Net Width	36 mm
Product Net Height	85 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.24 kg

Technical	
Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 400 V AC
Rated Control Circuit Voltage (U <sub>c</sub> )	110 ... 120 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 <sub>e</sub> )	(NC) 25 A (NO) 25 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(230 V) Single Phase, NC 6 A (230 V) Single Phase, NO 9 A
Rated Operational Power AC-1 (P <sub>e</sub> )	(230 V) Single Phase, NC 5.8 kW (230 V) Single Phase, NO 5.8 kW
Rated Operational Power AC-3 (P <sub>e</sub> )	(230 V) Single Phase, NC 1.3 kW (230 V) Single Phase, NO 1.3 kW
Rated Operational Current AC-7a (I <sub>e</sub> )	(NC) 25 A (NO) 25 A
Rated Operational Power AC-7a (P <sub>e</sub> )	(230 V) Single Phase, NC 5.8 kW (230 V) Single Phase, NO 5.8 kW
Rated Operational Current AC-7b (I <sub>e</sub> )	(230 V) Single Phase, NC 6 A (230 V) Single Phase, NO 9 A
Rated Operational Power AC-7b (P <sub>e</sub> )	(230 V) Single Phase, NC 0.9 kW (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 (U <sub>i</sub> )	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 Control Circuit	Flexible with Ferrule 1x 1 ... 2.5 mm <sup>2</sup>
	Flexible with Ferrule 2x 0.75 ... 1 mm <sup>2</sup>
	Flexible with Insulated Ferrule 1x 1 ... 2.5 mm <sup>2</sup>
	Flexible with Insulated Ferrule 2x 0.75 ... 1 mm <sup>2</sup>
	Flexible 1x 1 ... 4.0 mm <sup>2</sup>
Tightening Torque	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>
	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 (NC) 50000 cycle
	AC-1 (NO) 130000 cycle
	AC-3 (NC) 340000 cycle
	AC-3 (NO) 500000 cycle
	AC-7a (NC) 50000 cycle
	AC-7a (NO) 130000 cycle
	AC-7b (NC) 340000 cycle
Mechanical Durability	AC-7b (NO) 500000 cycle
	1000000 cycle
Number of Poles	4P
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Main Contacts NC	2
Number of Main Contacts NO	2
Width in Number of Modular Spacings	2.0
Pollution Degree	3
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

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 480 V AC
Horsepower Rating UL/CSA	(220 ... 240 V AC) Single Phase, NC 1 Hp (220 ... 240 V AC) Single Phase, NO 1 Hp (440 ... 480 V AC) Single Phase, NC 2 Hp (440 ... 480 V AC) Single Phase, NO 2 Hp
Connecting Capacity Main Circuit UL/CSA	Solid 16-8 AWG Stranded 16-8 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 9 in·lb

Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +80 °C
Maximum Operating	2000 m

Altitude Permissible	
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
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

Environmental Product Declaration - EPD	1SAC200412H0001
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Certificates and Declarations

A2L Certificate – IEC	1SAA920000-4601
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	box 6 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	1.44 kg
Package Level 2 EAN	4013614566950

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

Categories

Low Voltage Products and Systems → Control Products → Contactors → Installation Contactors

Low Voltage Products and Systems → Modular DIN Rail Products → Command and Signalling Devices → Installation Contactors

