




---

 PRODUCT-DETAILS

## EN20-20N-01

### EN20-20N-01 Installation Contactor (NO) 20 A - 2 NO - 0 NC - 24 V - Control Circuit 400 Hz




---

**General Information**

Extended Product Type	EN20-20N-01
Product ID	1SBE122111M0120
Catalog Description	EN20-20N-01 Installation Contactor (NO) 20 A - 2 NO - 0 NC - 24 V - Control Circuit 400 Hz
Long Description	<p>The EN20..N installation contactors are used to control single loads up to 20 A and can be operated by AC or DC and/or manually. These contactors are made for use in household applications as well as in industrial environments.</p> <p>The following benefits are provided: Hum-free operation, low power consumption, integrated overvoltage protection and manual override.</p> <p>Various contact combinations and accessories are available. Manual operation is available in 3 states: "On", "Off", "Auto"</p>

---

**Ordering**

Package Level 1 EAN	3471523005426
Minimum Order Quantity	12 piece
Customs Tariff Number	85365080

## Popular Downloads

Data Sheet, Technical Information	2CDC103051C0201
Instructions and Manuals	2CDC103043M6801
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SBB505186D3001

## Dimensions

Product Net Width	18 mm
Product Net Height	85 mm
Product Net Depth / Length	65 mm
Product Net Weight	0.14 kg

## Technical

Rated Operational Voltage	Main Circuit 220 V DC Main Circuit 250 V AC
Rated Control Circuit Voltage ( $U_c$ )	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 Main Circuit DC
Rated Operational Current AC-1 ( $I_e$ )	(NO) 20 A
Rated Operational Current AC-3 ( $I_e$ )	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-1 ( $P_e$ )	(230 V) Single Phase 4.6 kW
Rated Operational Power AC-3 ( $P_e$ )	(230 V) Single Phase 1.3 kW
Rated Operational Current AC-7a ( $I_e$ )	(NO) 20 A
Rated Operational Power AC-7a ( $P_e$ )	(230 V) Single Phase 4.6 kW
Rated Operational Current AC-7b ( $I_e$ )	(230 V) Single Phase, NO 9 A
Rated Operational Power AC-7b ( $P_e$ )	(230 V) Single Phase 1.3 kW
Recommended Screw Driver	Control Circuit Pozidriv 1 Main Circuit Pozidriv 1
Rated Impulse Withstand Voltage ( $U_{imp}$ )	4 kV
Rated Insulation Voltage ( $U_i$ )	400 V
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 1 ... 6 mm <sup>2</sup> Flexible with Ferrule 2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 1 ... 6 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 1 ... 1.5 mm <sup>2</sup> Flexible 1x 1 ... 6 mm <sup>2</sup> Flexible 2x 1 ... 4 mm <sup>2</sup>

	Rigid 1x 1 ... 10 mm <sup>2</sup> Rigid 2x 1 ... 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 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 1 mm <sup>2</sup> Flexible 1x 1 ... 2.5 mm <sup>2</sup> Flexible 2x 1 ... 1.5 mm <sup>2</sup> Rigid 1x 0.5 ... 4 mm <sup>2</sup> Rigid 2x 0.75 ... 2.5 mm <sup>2</sup>
Tightening Torque	Control Circuit 0.9 N·m Main Circuit 1.2 N·m
Wire Stripping Length	Control Circuit 7 mm Main Circuit 10 mm
Degree of Protection	IP20
Electrical Durability	AC-1 (NO) 150000 cycle AC-3 (NO) 150000 cycle AC-7a (NO) 150000 cycle AC-7b (NO) 150000 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	1.0
Pollution Degree	3
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1 IEC/EN 61095 IEC 60335-2-40 A2L

## 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
SCIP	24302d17-fb53-42a1-b9bf-b1df45c1a931 Bulgaria (BG)
Simplified SCIP	acd8dc8-1bc9-48e7-bc66-4d7a07a46d02 Czech Republic (CZ) fce4b1b6-974a-4c1b-b8d3-e7a8cf23cca6 Denmark (DK)

5e90035f-87eb-47f3-b820-76cda51d7685 Croatia (HR)  
 3856f7bd-d983-4fdc-8853-bcc020a5f99f Germany (DE)  
 def82634-b81c-4131-a136-aea330a6c9de Poland (PL)  
 c986a194-a6e9-4b94-8d63-1cd33d83085d Greece (GR)  
 5a04dba4-ac88-4e9b-9309-3eabe8e29032 Estonia (EE)  
 91d3cd69-ae0d-4c4d-9714-d3250d83960f Hungary (HU)  
 1073527c-4235-41d3-847c-72ecfbbc85f9 Netherlands (NL)  
 37d8703c-ebf8-4928-b907-3ea832920e66 Germany (DE)  
 8613c8e3-c269-4105-9c0e-1ee36562dc02 Poland (PL)  
 181f9cbc-bdcc-4ce5-9efb-eed415753b25 Norway (NO)  
 9a95f16c-ec8a-4b1d-8232-65892edfe06b Germany (DE)  
 a894d0e1-ccc1-4635-baf8-a8a8e3b47000 Finland (FI)  
 11c30299-9670-49ad-9d7e-22d363d1bf3e Belgium (BE)  
 336f6779-7385-4710-8fab-476a521d6f64 Portugal (PT)  
 73304e67-75b4-4ff1-86c1-b06acc044545 Sweden (SE)  
 819d00bd-c3c5-47e2-bbd2-4000ff7b6382 France (FR)  
 4539096b-0d7d-4635-8f4d-729ac7cbee09 Poland (PL)  
 a6ed3412-3be9-4897-93b5-a3db4493ea6d Germany (DE)  
 e1c547f6-27c0-4a92-94d6-625f68c09b27 Sweden (SE)  
 fa8af033-41dc-4802-9681-336cd3d54274 Germany (DE)  
 92ac4330-11b9-4935-b85b-3dc99cbb196a Spain (ES)  
 37787f77-08de-43fe-94d8-8889d3fbd8d9 Hungary (HU)  
 665e0d77-e0e8-4113-adb8-7808f25ca8c2 Belgium (BE)  
 3266812f-3ea8-452b-a077-639ad7f4b0a7 France (FR)

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
CB Certificate	1SAA920007-2001
CQC Certificate	CQC2018010304057353 CQC2018010304057344
Declaration of Conformity - CCC	2020980304001370 2020980304001371
Declaration of Conformity - CE	1SAD101100-3301
Declaration of Conformity - UKCA	1SAD201100-3301
EAC Certificate	1SAA920003-2701
NF Certificate	1SAA920002-1201
RMRS Certificate	1SAA920000-0705

### Container Information

Package Level 1 Units	box 12 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	1.68 kg
Package Level 1 EAN	3471523005426

### 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

### 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

