



PRODUCT-DETAILS

# AF09-30-10-11

## AF09-30-10-11 24-60V50/60HZ 20-60VDC

### Contactors



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF09-30-10-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product ID            | 1SBL137001R1110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| EAN                   | 3471523110014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Catalog Description   | AF09-30-10-11 24-60V50/60HZ 20-60VDC Contactors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Long Description      | The AF09-30-10-11 is a 3 pole - 690 V IEC or 600 UL contactor with 1 built-in auxiliary contact and screw terminals, controlling motors up to 4 kW / 400 V AC (AC-3) or 5 hp / 480 V UL and switching power circuits up to 25 A (AC-1) or 25 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (24-60 V 50/60 Hz and 20-60 V DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories. |

| Ordering               |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85364900 |

## Popular Downloads

|                                   |                  |
|-----------------------------------|------------------|
| EPLAN Data                        | 9AAC159656_EPLAN |
| Data Sheet, Technical Information | 1SBC100214C0202  |
| Instructions and Manuals          | 1SBC101027M6801  |
| Instructions and Manuals (Part 2) | 1SAC200017M0002  |
| CAD Dimensional Drawing           | 2CDC001079B0201  |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 45 mm   |
| Product Net Depth / Length | 77 mm   |
| Product Net Height         | 86 mm   |
| Product Net Weight         | 0.27 kg |

## Technical

|                                                    |                                                                                                                                                |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts NO                         | 3                                                                                                                                              |
| Number of Main Contacts NC                         | 0                                                                                                                                              |
| Number of Auxiliary Contacts NO                    | 1                                                                                                                                              |
| Number of Auxiliary Contacts NC                    | 0                                                                                                                                              |
| Number of Poles                                    | 3P                                                                                                                                             |
| Standards                                          | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60335-2-40 LZGH2 A2L, UL 60947-4-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-4-1           |
| Rated Operational Voltage                          | Auxiliary Circuit 690 V<br>Main Circuit 690 V                                                                                                  |
| Rated Frequency (f)                                | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz<br>Main Circuit 50 / 60 Hz                                                          |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40^\circ\text{C}$ 35 A<br>acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A             |
| Rated Operational Current AC-1 ( $I_e$ )           | (690 V) 40 °C 25 A<br>(690 V) 60 °C 25 A<br>(690 V) 70 °C 22 A                                                                                 |
| Rated Operational Current AC-3 ( $I_e$ )           | (415 V) 60 °C 9 A<br>(440 V) 60 °C 9 A<br>(500 V) 60 °C 9.5 A<br>(690 V) 60 °C 7 A<br>(380 / 400 V) 60 °C 9 A<br>(220 / 230 / 240 V) 60 °C 9 A |
| Rated Operational Current AC-3e ( $I_e$ )          | (415 V) 60 °C 9 A<br>(440 V) 60 °C 9 A<br>(500 V) 60 °C 9.5 A<br>(690 V) 60 °C 7 A<br>(380 / 400 V) 60 °C 9 A<br>(220 / 230 / 240 V) 60 °C 9 A |
| Rated Operational Current AC-15 ( $I_e$ )          | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(400 / 440 V) 3 A                                                       |
| Rated Operational                                  | (110 V) 1-Pole, 40 °C 10 A                                                                                                                     |

Current DC-1 ( $I_e$ )

(110 V) 1-Pole, 60 °C 10 A  
 (110 V) 1-Pole, 70 °C 10 A  
 (110 V) 2 Poles in Series, 40 °C 25 A  
 (110 V) 2 Poles in Series, 60 °C 25 A  
 (110 V) 2 Poles in Series, 70 °C 22 A  
 (110 V) 3 Poles in Series, 40 °C 25 A  
 (110 V) 3 Poles in Series, 60 °C 25 A  
 (110 V) 3 Poles in Series, 70 °C 22 A  
 (220 V) 2 Poles in Series, 40 °C 10 A  
 (220 V) 2 Poles in Series, 60 °C 10 A  
 (220 V) 2 Poles in Series, 70 °C 10 A  
 (220 V) 3 Poles in Series, 40 °C 25 A  
 (220 V) 3 Poles in Series, 60 °C 25 A  
 (220 V) 3 Poles in Series, 70 °C 22 A  
 (72 V) 1-Pole, 40 °C 25 A  
 (72 V) 1-Pole, 60 °C 25 A  
 (72 V) 1-Pole, 70 °C 22 A  
 (72 V) 2 Poles in Series, 40 °C 25 A  
 (72 V) 2 Poles in Series, 60 °C 25 A  
 (72 V) 2 Poles in Series, 70 °C 22 A  
 (72 V) 3 Poles in Series, 40 °C 25 A  
 (72 V) 3 Poles in Series, 60 °C 25 A  
 (72 V) 3 Poles in Series, 70 °C 22 A

Rated Operational  
Current DC-3 ( $I_e$ )

(110 V) 1-Pole, 40 °C 6 A  
 (110 V) 1-Pole, 60 °C 6 A  
 (110 V) 1-Pole, 70 °C 6 A  
 (110 V) 2 Poles in Series, 40 °C 25 A  
 (110 V) 2 Poles in Series, 60 °C 25 A  
 (110 V) 2 Poles in Series, 70 °C 22 A  
 (110 V) 3 Poles in Series, 40 °C 25 A  
 (110 V) 3 Poles in Series, 60 °C 25 A  
 (110 V) 3 Poles in Series, 70 °C 22 A  
 (220 V) 2 Poles in Series, 40 °C 6 A  
 (220 V) 2 Poles in Series, 60 °C 6 A  
 (220 V) 2 Poles in Series, 70 °C 6 A  
 (220 V) 3 Poles in Series, 40 °C 25 A  
 (220 V) 3 Poles in Series, 60 °C 25 A  
 (220 V) 3 Poles in Series, 70 °C 22 A  
 (72 V) 1-Pole, 40 °C 25 A  
 (72 V) 1-Pole, 60 °C 25 A  
 (72 V) 1-Pole, 70 °C 22 A  
 (72 V) 2 Poles in Series, 40 °C 25 A  
 (72 V) 2 Poles in Series, 60 °C 25 A  
 (72 V) 2 Poles in Series, 70 °C 22 A  
 (72 V) 3 Poles in Series, 40 °C 25 A  
 (72 V) 3 Poles in Series, 60 °C 25 A  
 (72 V) 3 Poles in Series, 70 °C 22 A

Rated Operational  
Current DC-5 ( $I_e$ )

(110 V) 1-Pole, 40 °C 4 A  
 (110 V) 1-Pole, 60 °C 4 A  
 (110 V) 1-Pole, 70 °C 4 A  
 (110 V) 2 Poles in Series, 40 °C 10 A  
 (110 V) 2 Poles in Series, 60 °C 10 A  
 (110 V) 2 Poles in Series, 70 °C 10 A  
 (110 V) 3 Poles in Series, 40 °C 25 A  
 (110 V) 3 Poles in Series, 60 °C 25 A  
 (110 V) 3 Poles in Series, 70 °C 22 A  
 (220 V) 2 Poles in Series, 40 °C 4 A  
 (220 V) 2 Poles in Series, 60 °C 4 A  
 (220 V) 2 Poles in Series, 70 °C 4 A  
 (220 V) 3 Poles in Series, 40 °C 9 A  
 (220 V) 3 Poles in Series, 60 °C 9 A  
 (220 V) 3 Poles in Series, 70 °C 9 A  
 (72 V) 1-Pole, 40 °C 9 A  
 (72 V) 1-Pole, 60 °C 9 A  
 (72 V) 1-Pole, 70 °C 9 A  
 (72 V) 2 Poles in Series, 40 °C 25 A  
 (72 V) 2 Poles in Series, 60 °C 25 A  
 (72 V) 2 Poles in Series, 70 °C 22 A  
 (72 V) 3 Poles in Series, 40 °C 25 A  
 (72 V) 3 Poles in Series, 60 °C 25 A  
 (72 V) 3 Poles in Series, 70 °C 22 A

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Current DC-13 ( $I_e$ )                   | (24 V) 6 A / 144 W<br>(48 V) 2.8 A / 134 W<br>(72 V) 1 A / 72 W<br>(110 V) 0.55 A / 60 W<br>(125 V) 0.55 A / 69 W<br>(220 V) 0.27 A / 60 W<br>(250 V) 0.27 A / 68 W<br>(400 V) 0.15 A / 60 W<br>(500 V) 0.13 A / 65 W<br>(600 V) 0.1 A / 60 W                                                                                                                                       |
| Rated Operational Power AC-3 ( $P_e$ )                      | (400 V) 4 kW<br>(415 V) 4 kW<br>(440 V) 4 kW<br>(500 V) 5.5 kW<br>(690 V) 5.5 kW<br>(380 / 400 V) 4 kW<br>(220 / 230 / 240 V) 2.2 kW                                                                                                                                                                                                                                                |
| Rated Operational Power AC-3e ( $P_e$ )                     | (415 V) 4 kW<br>(440 V) 4 kW<br>(500 V) 5.5 kW<br>(690 V) 5.5 kW<br>(380 / 400 V) 4 kW<br>(220 / 230 / 240 V) 2.2 kW                                                                                                                                                                                                                                                                |
| Rated Short-time Withstand Current Low Voltage ( $I_{cw}$ ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A<br>for 0.1 s 140 A<br>for 1 s 100 A |
| Maximum Breaking Capacity                                   | $\cos \phi=0.45$ ( $\cos \phi=0.35$ for $I_e > 100$ A) at 440 V 250 A<br>$\cos \phi=0.45$ ( $\cos \phi=0.35$ for $I_e > 100$ A) at 690 V 106 A                                                                                                                                                                                                                                      |
| Rated Insulation Voltage ( $U_i$ )                          | acc. to IEC 60947-4-1 690 V<br>acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                                                                                                  |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | 6 kV                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum Electrical Switching Frequency                      | (AC-1) 600 cycles per hour<br>(AC-15) 1200 cycles per hour<br>(AC-2 / AC-4) 300 cycles per hour<br>(AC-3) 1200 cycles per hour<br>(DC-13) 900 cycles per hour                                                                                                                                                                                                                       |
| Maximum Mechanical Switching Frequency                      | 3600 cycles per hour                                                                                                                                                                                                                                                                                                                                                                |
| Rated Control Circuit Voltage ( $U_c$ )                     | 50 Hz 24 ... 60 V<br>60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V                                                                                                                                                                                                                                                                                                                  |
| Power Loss                                                  | at 6 A per Pole 0.1 W<br>at Rated Operating Conditions AC-1 per Pole 0.8 W<br>at Rated Operating Conditions AC-3 per Pole 0.1 W                                                                                                                                                                                                                                                     |
| Operate Time                                                | Between Coil De-energization and NC Contact Closing 13 ... 98 ms<br>Between Coil De-energization and NO Contact Opening 11 ... 95 ms<br>Between Coil Energization and NC Contact Opening 38 ... 90 ms<br>Between Coil Energization and NO Contact Closing 40 ... 95 ms                                                                                                              |
| Mounting on DIN Rail                                        | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                                                                                                                                      |
| Mounting by Screws (not supplied)                           | 2 x M4 Screws Placed Diagonally                                                                                                                                                                                                                                                                                                                                                     |
| Connecting Capacity Main Circuit                            | Flexible with Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 4 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 4 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 6 mm <sup>2</sup>                                                                                                |
| Connecting Capacity Auxiliary Circuit                       | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup>                                                                                                                                                                                                                                                          |

|                                        |                                                                                                                                                                                                                                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup>                                                                                                                               |
| Connecting Capacity<br>Control Circuit | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm <sup>2</sup><br>Rigid Solid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid Stranded 1/2x 1 ... 2.5 mm <sup>2</sup> |
| Wire Stripping Length                  | Auxiliary Circuit 10 mm<br>Control Circuit 10 mm<br>Main Circuit 10 mm                                                                                                                                                                                                                       |
| Degree of Protection                   | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20                                                                                            |
| Tightening Torque                      | Auxiliary Circuit 1.2 N-m<br>Control Circuit 1.2 N-m<br>Main Circuit 1.5 N-m                                                                                                                                                                                                                 |
| Terminal Type                          | Screw Terminals                                                                                                                                                                                                                                                                              |
| Product Name                           | Block Contactor                                                                                                                                                                                                                                                                              |

## Technical UL/CSA

|                                                 |                                                                                                                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEMA Size                                       | 00                                                                                                                                                                                                                                 |
| Continuous Current<br>Rating NEMA               | 9 A                                                                                                                                                                                                                                |
| Horsepower Rating<br>NEMA                       | (115 V AC) Single Phase 1/3 Hp<br>(200 V AC) Three Phase 1-1/2 Hp<br>(230 V AC) Single Phase 1 Hp<br>(230 V AC) Three Phase 1-1/2 Hp<br>(460 V AC) Three Phase 2 Hp<br>(575 V AC) Three Phase 2 Hp                                 |
| Maximum Operating<br>Voltage UL/CSA             | Main Circuit 600 V                                                                                                                                                                                                                 |
| General Use Rating<br>UL/CSA                    | (600 V AC) 25 A                                                                                                                                                                                                                    |
| Horsepower Rating<br>UL/CSA                     | (120 V AC) Single Phase 3/4 hp<br>(200 ... 208 V AC) Three Phase 2 hp<br>(220 ... 240 V AC) Three Phase 2 hp<br>(240 V AC) Single Phase 1-1/2 hp<br>(440 ... 480 V AC) Three Phase 5 hp<br>(550 ... 600 V AC) Three Phase 7-1/2 hp |
| Connecting Capacity<br>Main Circuit UL/CSA      | Rigid Solid 1/2x 16-10 AWG<br>Rigid Stranded 1/2x 16-10 AWG                                                                                                                                                                        |
| Connecting Capacity<br>Auxiliary Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 AWG                                                                                                                                                                        |
| Connecting Capacity<br>Control Circuit UL/CSA   | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 AWG                                                                                                                                                                        |
| Tightening Torque<br>UL/CSA                     | Auxiliary Circuit 11 in-lb<br>Control Circuit 11 in-lb<br>Main Circuit 13 in-lb                                                                                                                                                    |
| Full Load Amps Motor<br>Use                     | (120 V AC) Single Phase 13.8 A<br>(200 ... 208 V AC) Three Phase 7.8 A<br>(220 ... 240 V AC) Three Phase 6.8 A<br>(240 V AC) Single Phase 10 A<br>(440 ... 480 V AC) Three Phase 7.6 A<br>(550 ... 600 V AC) Three Phase 9 A       |

## Environmental

|                            |                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air<br>Temperature | Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C<br>Close to Contactor without Thermal O/L Relay -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                            |                                                                                                                                                                                  |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Climatic Withstand                         | Category B according to IEC 60947-1 Annex Q                                                                                                                                      |
| Maximum Operating Altitude Permissible     | Without Derating 3000 m                                                                                                                                                          |
| Resistance to Shock acc. to IEC 60068-2-27 | Closed, Shock Direction: B1 25 g<br>Open, Shock Direction: B1 5 g<br>Shock Direction: A 30 g<br>Shock Direction: B2 15 g<br>Shock Direction: C1 25 g<br>Shock Direction: C2 25 g |
| Resistance to Vibrations                   | 4g Closed Position & 2g Open position 5 ... 300 Hz                                                                                                                               |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| SCIP                                        | fd4714ff-9365-48a3-94a4-2bebfae11f23 China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Simplified SCIP                             | 8297a722-cc0f-4782-a8f8-075acea41bd6 Spain<br>60c3dbdc-391e-4daf-9a85-70e3bd0d2ea0 Croatia<br>0bb95f7e-5bd1-4d7f-b192-2477a25d35da Czech Republic<br>0b055dbd-1066-4155-a4d4-3771b2c41d57 France<br>2f7a69c0-b1af-42e2-8d87-80f8ee6b4b25 Germany<br>b217d838-e5ce-4026-978c-a13ceece6013 Germany<br>1f0a558a-9d04-4edd-b827-65ac41a26dcc Sweden<br>2045ed6b-b82b-4628-90cd-d4e7f27bb979 Germany<br>880d376c-4f31-4f54-b579-aab4c5291566 Poland<br>75051088-0f2d-4586-871a-6331dd71d145 France<br>d551d6e5-5f59-4717-867a-b2bc44c17f6b Sweden<br>ac2002f8-634f-49f3-9820-e719cf270af6 Denmark<br>5abac707-494a-4531-b610-fb9643ebba41 Germany<br>736597e3-e353-4116-b956-c6c7b4698b4b Bulgaria<br>5b8d698d-7c0a-4e4b-8e45-4e67bb7a8c3a Estonia<br>bdb7092f-5d60-4ec6-9da8-e559b8617f36 Finland<br>31c30f9a-d89e-4369-8c43-e3d693e857ec Hungary<br>81bc28c3-da00-43f3-88e4-8d2dbf3fdc09 Hungary<br>91d5fca5-b899-468c-a97a-4cdf403f4a58 Norway<br>20d8f677-c436-4f8f-8fdc-90f414d5bf1f Netherlands<br>c6fee10d-6aa1-4cd6-8dc6-e09fec5969dd Belgium<br>b2f25054-3b81-43fb-b349-fb478b0c00c1 Greece<br>35fb5949-f388-41ae-9d4f-b963db63e20a Portugal<br>b433b770-8005-4c63-9194-9e95ab1d890a Poland<br>2e4f67af-ba3e-4f23-8231-a16fc7eaf9aa Germany<br>fc32984e-d501-4530-a019-c70a65038877 Poland<br>52949e89-943e-45a7-83b4-a076ae89ea4c Belgium |
| Toxic Substances Control Act - TSCA         | 2CMT2023-006525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WEEE B2C / B2B                              | Business To Business                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 |
| End Of Life Disassembling Instructions          | 1SBC101080M6801                              |
| Environmental Product                           | 1SBD250584E3000                              |

## Declaration - EPD

|                                                   |                                                                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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 - 92.7 %                                                                            |

## Certificates and Declarations

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| A2L Certificate – UL             | 9AKK108469A4875<br>9AKK108469A4879         |
| ABS Certificate                  | ABS_20-2060694-PDA                         |
| BV Certificate                   | BV_2634H24898C1                            |
| CB Certificate                   | CB_SE-117714                               |
| CCC Certificate                  | CCC_2024010304656669                       |
| CQC Certificate                  | CQC2010010304445624<br>CQC2020010304298240 |
| Declaration of Conformity - CCC  | 2020980304001253<br>2020980304001082       |
| Declaration of Conformity - CE   | 1SBD250000U1000                            |
| Declaration of Conformity - UKCA | 1SBD250031U1000                            |
| DNV Certificate                  | DNV_TAE00001AF-4                           |
| KC Certificate                   | KC_HW02016-15004C                          |
| LR Certificate                   | LRS_LR23403517TA-02                        |
| RINA Certificate                 | RINA_ELE142224XG                           |
| RMRS Certificate                 | RMRS_1802705280                            |
| UL Certificate                   | UL-US-2150887-5<br>UL-CA-2142658-5         |
| UL Listing Card                  | E312527                                    |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 87 mm         |
| Package Level 1 Depth / Length | 79 mm         |
| Package Level 1 Height         | 47 mm         |
| Package Level 1 Gross Weight   | 0.27 kg       |
| Package Level 1 EAN            | 3471523110014 |

## External Classifications and Standards

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Object Classification Code         | Q                                        |
| ETIM 7                             | EC000066 - Power contactor, AC switching |
| ETIM 8                             | EC000066 - Power contactor, AC switching |
| ETIM 9                             | EC000066 - Power contactor, AC switching |
| eClass                             | V11.0 : 27371003                         |
| UNSPSC                             | 39121529                                 |
| IDEA Granular Category Code (IGCC) | 4758 >> Iec Contactors                   |
| E-Number (Finland)                 | 3705800                                  |
| E-Number (Sweden)                  | 3210016                                  |

## Accessories

| Identifier      | Description                                        | Type       | Quantity | Unit Of Measure |
|-----------------|----------------------------------------------------|------------|----------|-----------------|
| 1SBN010015R1001 | CE5-01D0.1 Auxiliary Contact Block                 | CE5-01D0.1 | 1        | piece           |
| 1SBN010015R1010 | CE5-10D0.1 Auxiliary Contact Block                 | CE5-10D0.1 | 1        | piece           |
| 1SBN010016R1001 | CE5-01W0.1 Auxiliary Contact Block                 | CE5-01W0.1 | 1        | piece           |
| 1SBN010016R1010 | CE5-10W0.1 Auxiliary Contact Block                 | CE5-10W0.1 | 1        | piece           |
| 1SBN010017R1001 | CE5-01D2 Auxiliary Contact Block                   | CE5-01D2   | 1        | piece           |
| 1SBN010017R1010 | CE5-10D2 Auxiliary Contact Block                   | CE5-10D2   | 1        | piece           |
| 1SBN010018R1001 | CE5-01W2 Auxiliary Contact Block                   | CE5-01W2   | 1        | piece           |
| 1SBN010018R1010 | CE5-10W2 Auxiliary Contact Block                   | CE5-10W2   | 1        | piece           |
| 1SBN010110R1010 | CA4-10 Auxiliary Contact Block                     | CA4-10     | 1        | piece           |
| 1SBN010110T1010 | CA4-10-T Auxiliary Contact Block                   | CA4-10-T   | 1        | piece           |
| 1SBN010110R1001 | CA4-01 Auxiliary Contact Block                     | CA4-01     | 1        | piece           |
| 1SBN010110T1001 | CA4-01-T Auxiliary Contact Block                   | CA4-01-T   | 1        | piece           |
| 1SBN010111R1010 | CC4-10 Leading Auxiliary Contact Block             | CC4-10     | 1        | piece           |
| 1SBN010111R1001 | CC4-01 Lagging Auxiliary Contact Block             | CC4-01     | 1        | piece           |
| 1SBN010120R1011 | CAL4-11 Auxiliary Contact Block                    | CAL4-11    | 1        | piece           |
| 1SBN010120T1011 | CAL4-11-T Auxiliary Contact Block                  | CAL4-11-T  | 1        | piece           |
| 1SBN010140R1022 | CA4-22E Auxiliary Contact Block                    | CA4-22E    | 1        | piece           |
| 1SBN010140R1031 | CA4-31E Auxiliary Contact Block                    | CA4-31E    | 1        | piece           |
| 1SBN010140R1040 | CA4-40E Auxiliary Contact Block                    | CA4-40E    | 1        | piece           |
| 1SBN010140R1004 | CA4-04E Auxiliary Contact Block                    | CA4-04E    | 1        | piece           |
| 1SBN010140R1322 | CA4-22U Auxiliary Contact Block                    | CA4-22U    | 1        | piece           |
| 1SBN010140R1122 | CA4-22M Auxiliary Contact Block                    | CA4-22M    | 1        | piece           |
| 1SBN010151R1011 | CAT4-11E Auxiliary Contact / Coil Terminal Block   | CAT4-11E   | 1        | piece           |
| 1SBN010140R1331 | CA4-31U Auxiliary Contact Block                    | CA4-31U    | 1        | piece           |
| 1SBN010140R1131 | CA4-31M Auxiliary Contact Block                    | CA4-31M    | 1        | piece           |
| 1SBN010151R1111 | CAT4-11M Auxiliary Contact / Coil Terminal Block   | CAT4-11M   | 1        | piece           |
| 1SBN010140R1340 | CA4-40U Auxiliary Contact Block                    | CA4-40U    | 1        | piece           |
| 1SBN010140R1113 | CA4-13M Auxiliary Contact Block                    | CA4-13M    | 1        | piece           |
| 1SBN010151R1311 | CAT4-11U Auxiliary Contact / Coil Terminal Block   | CAT4-11U   | 1        | piece           |
| 1SBN070156T1000 | LDC4 Additional Coil Terminal Block                | LDC4       | 1        | piece           |
| 1SBN010140R1104 | CA4-04M Auxiliary Contact Block                    | CA4-04M    | 1        | piece           |
| 1SBN020112R1000 | TEF4-ON Frontal Electronic Timer                   | TEF4-ON    | 1        | piece           |
| 1SBN020113R1000 | TEF4S-ON Frontal Electronic Timer                  | TEF4S-ON   | 1        | piece           |
| 1SBN010134R1011 | CAL4-11K Auxiliary Contact Block                   | CAL4-11K   | 1        | piece           |
| 1SBN020114R1000 | TEF4-OFF Frontal Electronic Timer                  | TEF4-OFF   | 1        | piece           |
| 1SBN020115R1000 | TEF4S-OFF Frontal Electronic Timer                 | TEF4S-OFF  | 1        | piece           |
| 1SBN071303T1000 | LY16-4 Connecting Strip                            | LY16-4     | 1        | piece           |
| 1SBN071305R1000 | LF16-4 Connecting Strip                            | LF16-4     | 1        | piece           |
| 1SBN110108T1000 | BX4 Protective Cover                               | BX4        | 1        | piece           |
| 1SBN071306R1000 | LG16-4 Connecting Strip                            | LG16-4     | 1        | piece           |
| 1SBN040100R1011 | WA4-11 24-60V50/60HZ-DC Mechanical Latching Unit   | WA4-11     | 1        | piece           |
| 1SBN040100R1014 | WA4-14 250-500V50/60HZ-DC Mechanical Latching Unit | WA4-14     | 1        | piece           |
| 1SBN040100R1010 | WA4-10 24VDC Mechanical Latching Unit              | WA4-10     | 1        | piece           |
| 1SBN040100R1012 | WA4-12 48-130V50/60HZ-DC Mechanical Latching Unit  | WA4-12     | 1        | piece           |
| 1SBN060100R1000 | RA4 Interface Relay                                | RA4        | 1        | piece           |



|                 |                                                    |           |   |       |
|-----------------|----------------------------------------------------|-----------|---|-------|
| 1SBN010146R1104 | CA4-04MK Auxiliary Contact Block                   | CA4-04MK  | 1 | piece |
| 1SBN040100R1013 | WA4-13 100-250V50/60HZ-DC Mechanical Latching Unit | WA4-13    | 1 | piece |
| 1SBN010146R1113 | CA4-13MK Auxiliary Contact Block                   | CA4-13MK  | 1 | piece |
| 1SBN070159T1000 | LDC4K Additional Coil Terminal Block               | LDC4K     | 1 | piece |
| 1SBN010160R1001 | CA4-01K Auxiliary Contact Block                    | CA4-01K   | 1 | piece |
| 1SBN010146R1022 | CA4-22EK Auxiliary Contact Block                   | CA4-22EK  | 1 | piece |
| 1SBN010160R1010 | CA4-10K Auxiliary Contact Block                    | CA4-10K   | 1 | piece |
| 1SBN010146R1122 | CA4-22MK Auxiliary Contact Block                   | CA4-22MK  | 1 | piece |
| 1SBN010160T1001 | CA4-01K-T Auxiliary Contact Block                  | CA4-01K-T | 1 | piece |
| 1SBN010160T1010 | CA4-10K-T Auxiliary Contact Block                  | CA4-10K-T | 1 | piece |
| 1SBN010146R1031 | CA4-31EK Auxiliary Contact Block                   | CA4-31EK  | 1 | piece |
| 1SBN010146R1131 | CA4-31MK Auxiliary Contact Block                   | CA4-31MK  | 1 | piece |
| 1SBN010146R1040 | CA4-40EK Auxiliary Contact Block                   | CA4-40EK  | 1 | piece |

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## Categories

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Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF09

