



PRODUCT-DETAILS

# AF09-30-01-11

## AF09-30-01-11 24-60V50/60HZ 20-60VDC

### Contactors



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF09-30-01-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product ID            | 1SBL137001R1101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| EAN                   | 3471523110113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Catalog Description   | AF09-30-01-11 24-60V50/60HZ 20-60VDC Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Long Description      | The AF09-30-01-11 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        |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 1SBC101027M6801 |
| 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                          | 0                                                                                                                                              |
| Number of Auxiliary Contacts NC                          | 1                                                                                                                                              |
| Standards                                                | IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, 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 <sub>th</sub> ) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 35 A<br>acc. to IEC 60947-5-1, Θ = 40 °C 16 A                                                 |
| Rated Operational Current AC-1 (I <sub>e</sub> )         | (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 <sub>e</sub> )         | (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 <sub>e</sub> )        | (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 Power AC-3 (P <sub>e</sub> )           | (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 <sub>e</sub> )          | (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                                        | (500 V) 2 A                                                                                                                                    |

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current AC-15 (I <sub>e</sub> )                                         | (690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(400 / 440 V) 3 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rated Short-time<br>Withstand Current Low<br>Voltage (I <sub>cw</sub> ) | 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<br>Capacity                                            | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 250 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 106 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum Electrical<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated Operational<br>Current DC-1 (I <sub>e</sub> )                     | (110 V) 1-Pole, 40 °C 10 A<br>(110 V) 1-Pole, 60 °C 10 A<br>(110 V) 1-Pole, 70 °C 10 A<br>(110 V) 2 Poles in Series, 40 °C 25 A<br>(110 V) 2 Poles in Series, 60 °C 25 A<br>(110 V) 2 Poles in Series, 70 °C 22 A<br>(110 V) 3 Poles in Series, 40 °C 25 A<br>(110 V) 3 Poles in Series, 60 °C 25 A<br>(110 V) 3 Poles in Series, 70 °C 22 A<br>(220 V) 2 Poles in Series, 40 °C 10 A<br>(220 V) 2 Poles in Series, 60 °C 10 A<br>(220 V) 2 Poles in Series, 70 °C 10 A<br>(220 V) 3 Poles in Series, 40 °C 25 A<br>(220 V) 3 Poles in Series, 60 °C 25 A<br>(220 V) 3 Poles in Series, 70 °C 22 A<br>(72 V) 1-Pole, 40 °C 25 A<br>(72 V) 1-Pole, 60 °C 25 A<br>(72 V) 1-Pole, 70 °C 22 A<br>(72 V) 2 Poles in Series, 40 °C 25 A<br>(72 V) 2 Poles in Series, 60 °C 25 A<br>(72 V) 2 Poles in Series, 70 °C 22 A<br>(72 V) 3 Poles in Series, 40 °C 25 A<br>(72 V) 3 Poles in Series, 60 °C 25 A<br>(72 V) 3 Poles in Series, 70 °C 22 A |
| Rated Operational<br>Current DC-3 (I <sub>e</sub> )                     | (110 V) 1-Pole, 40 °C 6 A<br>(110 V) 1-Pole, 60 °C 6 A<br>(110 V) 1-Pole, 70 °C 6 A<br>(110 V) 2 Poles in Series, 40 °C 25 A<br>(110 V) 2 Poles in Series, 60 °C 25 A<br>(110 V) 2 Poles in Series, 70 °C 22 A<br>(110 V) 3 Poles in Series, 40 °C 25 A<br>(110 V) 3 Poles in Series, 60 °C 25 A<br>(110 V) 3 Poles in Series, 70 °C 22 A<br>(220 V) 2 Poles in Series, 40 °C 6 A<br>(220 V) 2 Poles in Series, 60 °C 6 A<br>(220 V) 2 Poles in Series, 70 °C 6 A<br>(220 V) 3 Poles in Series, 40 °C 25 A<br>(220 V) 3 Poles in Series, 60 °C 25 A<br>(220 V) 3 Poles in Series, 70 °C 22 A<br>(72 V) 1-Pole, 40 °C 25 A<br>(72 V) 1-Pole, 60 °C 25 A<br>(72 V) 1-Pole, 70 °C 22 A<br>(72 V) 2 Poles in Series, 40 °C 25 A<br>(72 V) 2 Poles in Series, 60 °C 25 A<br>(72 V) 2 Poles in Series, 70 °C 22 A<br>(72 V) 3 Poles in Series, 40 °C 25 A<br>(72 V) 3 Poles in Series, 60 °C 25 A<br>(72 V) 3 Poles in Series, 70 °C 22 A       |
| Rated Operational<br>Current DC-5 (I <sub>e</sub> )                     | (110 V) 1-Pole, 40 °C 4 A<br>(110 V) 1-Pole, 60 °C 4 A<br>(110 V) 1-Pole, 70 °C 4 A<br>(110 V) 2 Poles in Series, 40 °C 10 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | (110 V) 2 Poles in Series, 60 °C 10 A<br>(110 V) 2 Poles in Series, 70 °C 10 A<br>(110 V) 3 Poles in Series, 40 °C 25 A<br>(110 V) 3 Poles in Series, 60 °C 25 A<br>(110 V) 3 Poles in Series, 70 °C 22 A<br>(220 V) 2 Poles in Series, 40 °C 4 A<br>(220 V) 2 Poles in Series, 60 °C 4 A<br>(220 V) 2 Poles in Series, 70 °C 4 A<br>(220 V) 3 Poles in Series, 40 °C 9 A<br>(220 V) 3 Poles in Series, 60 °C 9 A<br>(220 V) 3 Poles in Series, 70 °C 9 A<br>(72 V) 1-Pole, 40 °C 9 A<br>(72 V) 1-Pole, 60 °C 9 A<br>(72 V) 1-Pole, 70 °C 9 A<br>(72 V) 2 Poles in Series, 40 °C 25 A<br>(72 V) 2 Poles in Series, 60 °C 25 A<br>(72 V) 2 Poles in Series, 70 °C 22 A<br>(72 V) 3 Poles in Series, 40 °C 25 A<br>(72 V) 3 Poles in Series, 60 °C 25 A<br>(72 V) 3 Poles in Series, 70 °C 22 A |
| Rated Operational Current DC-13 (I <sub>e</sub> )   | (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 Insulation Voltage (U <sub>i</sub> )          | 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 <sub>imp</sub> ) | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum Mechanical Switching Frequency              | 3600 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 50 Hz 24 ... 60 V<br>60 Hz 24 ... 60 V<br>DC Operation 20 ... 60 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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><br>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 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 |
| Terminal Type        | Screw Terminals                                                                                                                                                                                   |

Technical UL/CSA

|                                              |                                                                                                                                                                                                                                    |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEMA Size                                    | 00                                                                                                                                                                                                                                 |
| Continuous Current Rating NEMA               | 9 A                                                                                                                                                                                                                                |
| Horsepower Rating 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 Voltage UL/CSA             | Main Circuit 600 V                                                                                                                                                                                                                 |
| General Use Rating UL/CSA                    | (600 V AC) 25 A                                                                                                                                                                                                                    |
| Horsepower Rating 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 Main Circuit UL/CSA      | Rigid Solid 1/2x 16-10 AWG<br>Rigid Stranded 1/2x 16-10 AWG                                                                                                                                                                        |
| Connecting Capacity Auxiliary Circuit UL/CSA | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 AWG                                                                                                                                                                        |
| Connecting Capacity Control Circuit UL/CSA   | Rigid Solid 1/2x 18-14 AWG<br>Rigid Stranded 1/2x 18-14 AWG                                                                                                                                                                        |
| Tightening Torque UL/CSA                     | Auxiliary Circuit 11 in-lb<br>Control Circuit 11 in-lb<br>Main Circuit 13 in-lb                                                                                                                                                    |

Environmental

|                                            |                                                                                                                                                                                  |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air 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                                                                                                                               |

Material Compliance

|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658                   |
| REACH Declaration                           | 2CMT2021-006202                   |
| RoHS Information                            | 2CMT2021-006277                   |
| RoHS Status                                 | Following EU Directive 2011/65/EU |

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| 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) |

Certificates and Declarations

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| ABS Certificate                  | ABS_20-2060694-PDA                         |
| BV Certificate                   | BV_2634H24898C0                            |
| CB Certificate                   | CB_SE-108879                               |
| CCC Certificate                  | CCC_2010010304445624                       |
| 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                           |
| EAC Certificate                  | EAC_RU_FRME77B03447                        |
| GOST Certificate                 | GOST_POCCFR.ME77.B07175.pdf                |
| KC Certificate                   | KC_HW02016-15004C                          |
| LR Certificate                   | LRS_LR23403517TA-02                        |
| RINA Certificate                 | RINA_ELE240318XG                           |
| 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            | 3471523110113 |
| Package Level 2 Units          | box 27 piece  |
| Package Level 2 Width          | 250 mm        |
| Package Level 2 Depth / Length | 300 mm        |
| Package Level 2 Height         | 315 mm        |
| Package Level 2 Gross Weight   | 7.29 kg       |
| Package Level 3 Units          | 1296 piece    |

Classifications

|                            |                                           |
|----------------------------|-------------------------------------------|
| Object Classification Code | Q                                         |
| ETIM 4                     | EC000066 - Magnet contactor, AC-switching |
| ETIM 5                     | EC000066 - Magnet contactor, AC-switching |

|                                    |                                          |
|------------------------------------|------------------------------------------|
| ETIM 6                             | EC000066 - Power contactor, AC switching |
| ETIM 7                             | EC000066 - Power contactor, AC switching |
| ETIM 8                             | EC000066 - Power contactor, AC switching |
| eClass                             | V11.0 : 27371003                         |
| UNSPSC                             | 39121529                                 |
| IDEA Granular Category Code (IGCC) | 4758 >> Iec Contactors                   |
| E-Number (Finland)                 | 3705801                                  |
| E-Number (Sweden)                  | 3210015                                  |

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### Categories

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

