



PRODUCT-DETAILS

# AF460F-30-11

## AF460F-30-11 250-500V AC/DC Contactor



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | AF460F-30-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product ID            | 1SFL597001R9103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EAN                   | 7320500223185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Catalog Description   | AF460F-30-11 250-500V AC/DC Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Long Description      | The AF460F-30-11 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, for Fire Pump applications, controlling motors up to 250 kW / 400 V AC (AC-3) or 400 hp / 480 V UL and switching power circuits up to n.a. A (AC-1) or 650 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (220-240 V 50/60 Hz), 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                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Instructions and Manuals          | 1SFC380023-en   |
| Instructions and Manuals (Part 2) | 1SFC101038M0201 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

| Dimensions                 |         |
|----------------------------|---------|
| Product Net Width          | 186 mm  |
| Product Net Depth / Length | 216 mm  |
| Product Net Height         | 278 mm  |
| Product Net Weight         | 10.6 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                  | 1                                                                                                                                                                                |
| Number of Poles                                  | 3P                                                                                                                                                                               |
| Rated Operational Voltage                        | Main Circuit 1000 V                                                                                                                                                              |
| Rated Operational Current AC-1 (I <sub>e</sub> ) | (1000 V) 40 °C 700 A<br>(1000 V) 60 °C 600 A<br>(1000 V) 70 °C 480 A<br>(690 V) 40 °C 700 A<br>(690 V) 70 °C 480 A                                                               |
| Rated Operational Current AC-3 (I <sub>e</sub> ) | (415 V) 55 °C 460 A<br>(440 V) 55 °C 460 A<br>(500 V) 55 °C 460 A<br>(690 V) 55 °C 400 A<br>(1000 V) 55 °C 200 A<br>(380 / 400 V) 55 °C 460 A<br>(220 / 230 / 240 V) 55 °C 460 A |
| Rated Operational Power AC-3 (P <sub>e</sub> )   | (415 V) 250 kW<br>(440 V) 250 kW<br>(500 V) 315 kW<br>(690 V) 355 kW<br>(1000 V) 280 kW<br>(380 / 400 V) 250 kW<br>(220 / 230 / 240 V) 132 kW                                    |
| Rated Insulation Voltage (U <sub>i</sub> )       | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 V                                                                                                        |
| Mechanical Durability                            | 3 million                                                                                                                                                                        |
| Rated Control Circuit Voltage (U <sub>c</sub> )  | 50 Hz 250 ... 500 V                                                                                                                                                              |
| Power Loss                                       | at Rated Operating Conditions per Pole 21 W                                                                                                                                      |
| Terminal Type                                    | Main Circuit: Bars                                                                                                                                                               |
| Product Name                                     | Block Contactor                                                                                                                                                                  |

| Technical UL/CSA             |                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Use Rating<br>UL/CSA | (600 V AC) 650 A                                                                                                                                                                          |
| Horsepower Rating<br>UL/CSA  | (200 V AC) Three Phase 150 hp<br>(208 V AC) Three Phase 150 hp<br>(220 ... 240 V AC) Three Phase 200 hp<br>(440 ... 480 V AC) Three Phase 400 hp<br>(550 ... 600 V AC) Three Phase 500 hp |
| Full Load Amps Motor<br>Use  | (440 ... 480 V AC) Three Phase 477 A<br>(550 ... 600 V AC) Three Phase 472 A                                                                                                              |

| Material Compliance                               |                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658                                                        |
| REACH Declaration                                 | 2CMT2021-006202                                                        |
| RoHS Information                                  | 2CMT2021-006277                                                        |
| RoHS Status                                       | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances<br>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                             |                 |
|----------------------------------------------|-----------------|
| End Of Life<br>Disassembling<br>Instructions | 1SFC100112M0003 |
| Environmental Product<br>Declaration - EPD   | 1SFC100105D0201 |

| Certificates and Declarations       |                   |
|-------------------------------------|-------------------|
| CB Certificate                      | SE-82316          |
| Declaration of<br>Conformity - CE   | 2CMT2019-005796   |
| Declaration of<br>Conformity - UKCA | 2CMT2020-006118   |
| PRS Certificate                     | TE_2092_880423_16 |
| UL Certificate                      | 20121207-E36588   |

| Container Information             |               |
|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 280 mm        |
| Package Level 1 Depth /<br>Length | 375 mm        |
| Package Level 1 Height            | 310 mm        |
| Package Level 1 Gross<br>Weight   | 12 kg         |
| Package Level 1 EAN               | 7320500223185 |

| 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                   |   |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF460

