



Representative Image

## Alternate Catalog No. GAF460-10-11-70 Catalog No. 1SFL597025R7011

**Description:** GAF460-10-11 100-250V 50/60Hz / 100-250V DC Contactor

**UPC No** 7320500383971

**Home > Contactors & Starters > UL Listed IEC Contactors > AF Contactors**

A 3-pole Contactor suitable for DC-1 applications where all three poles must be connected in series in a 1-pole configuration up to max 1000 VDC. Operated with wide control voltage range 100-250 V, AC/DC

### Descriptors

|                      |                  |
|----------------------|------------------|
| Category             | AF Contactors    |
| Block Contactor Type | 1-Pole Contactor |

### Specifications

|                                           |                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type                              | AF                                                                                                                                                                                                                                                                                                                                                                               |
| General Use Rating UL/CSA                 | (1000 V DC) 650 A<br>(440 V DC) 650 A<br>(600 V DC) 650 A                                                                                                                                                                                                                                                                                                                        |
| Object Classification Code                | Q                                                                                                                                                                                                                                                                                                                                                                                |
| Terminal Type                             | Main Circuit: Bars                                                                                                                                                                                                                                                                                                                                                               |
| Rated Control Circuit Voltage             | 50 Hz /60 Hz DC Operation 100 ... 250 V                                                                                                                                                                                                                                                                                                                                          |
| Number of Main Contacts NO                | 1                                                                                                                                                                                                                                                                                                                                                                                |
| Number of Main Contacts NC                | 0                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum Operating Voltage UL/CSA          | Main Circuit 600 V                                                                                                                                                                                                                                                                                                                                                               |
| Number of Auxiliary Contacts NO           | 1                                                                                                                                                                                                                                                                                                                                                                                |
| RoHS Status                               | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                                                                                                                                |
| Reference Ambient Air Temperature         | Operation -40 ... +70 °C<br>Storage -40 ... +70 °C                                                                                                                                                                                                                                                                                                                               |
| Rated Operational Voltage                 | Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                                              |
| Number of Auxiliary Contacts NC           | 1                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum Operating Altitude Permissible    | 3000 m                                                                                                                                                                                                                                                                                                                                                                           |
| Conventional Free-air Thermal Current     | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 700 A                                                                                                                                                                                                                                                                                                                           |
| Rated Insulation Voltage                  | acc. to UL/CSA 1000 V                                                                                                                                                                                                                                                                                                                                                            |
| Mechanical Durability                     | 5 million                                                                                                                                                                                                                                                                                                                                                                        |
| Coil Operating Limits                     | (acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70^\circ \text{C}$ )                                                                                                                                                                                                                                                                                   |
| Maximum Mechanical Switching Frequency    | 300 cycles per hour                                                                                                                                                                                                                                                                                                                                                              |
| Secondary Rated Impulse Withstand Voltage | Main Circuit 8 kV                                                                                                                                                                                                                                                                                                                                                                |
| Connecting Capacity Main Circuit          | Bar 47 mm<br>Rigid Al-Cable 2x240 m <sup>2</sup><br>Rigid Cu-Cable 240 m <sup>2</sup>                                                                                                                                                                                                                                                                                            |
| Coil Consumption                          | Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V - A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V - A<br>Holding at Max. Rated Control Circuit Voltage DC 4 W<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 890 V - A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 890 V - A<br>Pull-in at Max. Rated Control Circuit Voltage DC 990 W |

**by ABB**

## Specifications

|                                       |                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Degree of Protection                  | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00            |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 1 x 0.75 ... 2.5 m <sup>2</sup><br>Flexible 2x0.75 ... 2.5 m <sup>2</sup><br>Stranded 1 x 1 .... 4 m <sup>2</sup> |

## Classifications

|                                    |                                          |
|------------------------------------|------------------------------------------|
| ETIM 4                             | EC002552 - Power contactor, DC switching |
| ETIM 6.0                           | EC002552 - Power contactor, DC switching |
| ETIM 7                             | EC002552 - Power contactor, DC switching |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors                       |
| ETIM 5.0                           | EC002552 - Power contactor, DC switching |

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Weight         | 10.6 kg |
| Product Net Depth / Length | 216 mm  |
| Product Net Width          | 186 mm  |
| Product Net Height         | 278 mm  |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 280 mm        |
| Package Level 1 Height         | 310 mm        |
| Package Level 1 Depth / Length | 375 mm        |
| Package Level 1 EAN            | 7320500383971 |
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Gross Weight   | 12 kg         |

## Ordering

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