



Representative Image

## Alternate Catalog No. GAF2050-10-11-70 Catalog No. 1SFL707025R7011

**Description:** GAF2050-10-11 100-250V 50/60Hz/DC Contactor

**UPC No** 7320500408254

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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) 2050 A<br>(440 V DC) 2050 A<br>(600 V DC) 2050 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 2050 A  |
| Rated Insulation Voltage                  | acc. to UL/CSA 1000 V  |
| Mechanical Durability                     | 0.5 million  |
| Coil Operating Limits                     | (acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70$ °C)  |
| Maximum Mechanical Switching Frequency    | 300 cycles per hour  |
| Secondary Rated Impulse Withstand Voltage | Main Circuit 8 kV  |
| Connecting Capacity Main Circuit          | Bar 100 mm   |
| Coil Consumption                          | Holding at Max. Rated Control Circuit Voltage 50 Hz 48 V - A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V - A<br>Holding at Max. Rated Control Circuit Voltage DC 16 V - A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 1900 V - A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1900 V - A<br>Pull-in at Max. Rated Control Circuit Voltage DC 1700 V - A |
| 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   |

**by ABB**

## Specifications

|                                       |   |
|---------------------------------------|---|
| Connecting Capacity Auxiliary Circuit | Flexible with Insulated Ferrule 1 x 0.75 ... 2.5 m <sup>2</sup><br>Flexible 2x0.75 ... 2.5 m <sup>2</sup><br>Stranded 2 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         | 33 kg  |
| Product Net Depth / Length | 244 mm |
| Product Net Width          | 438 mm |
| Product Net Height         | 392 mm |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 555 mm        |
| Package Level 1 Height         | 500 mm        |
| Package Level 1 Depth / Length | 365 mm        |
| Package Level 1 EAN            | 7320500408254 |
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Gross Weight   | 35 kg         |

## Ordering

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