



PRODUCT-DETAILS

GAF300-10-11-70

GAF300-10-11 100-250V 50/60Hz / 100-250V  
DC Contactor



| General Information   |   |
|-----------------------|---|
| Extended Product Type | GAF300-10-11-70   |
| Product ID            | 1SFL557025R7011   |
| EAN                   | 7320500400784   |
| Catalog Description   | GAF300-10-11 100-250V 50/60Hz / 100-250V DC Contactor   |
| Long Description      | 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 |

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

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and                  | 1SFC101046M0201 |

Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 140 mm   |
| Product Net Depth / Length | 180.5 mm |
| Product Net Height         | 227 mm   |
| Product Net Weight         | 5.5 kg   |

Technical

|  |   |
|--|---|
| Number of Main Contacts NO                               | 1   |
| Number of Main Contacts NC                               | 0   |
| Number of Auxiliary Contacts NO                          | 1   |
| Number of Auxiliary Contacts NC                          | 1   |
| Rated Operational Voltage                                | Main Circuit 1000 V   |
| Conventional Free-air Thermal Current (I <sub>th</sub> ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ }^{\circ}\text{C}$ 500 A  |
| Maximum Breaking Capacity                                | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 3000 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 2500 A  |
| Rated Operational Current DC-1 (I <sub>e</sub> )         | (1000 V) 3 Poles in Series, 40 °C 500 A<br>(1000 V) 3 Poles in Series, 55 °C 400 A<br>(1000 V) 3 Poles in Series, 70 °C 325 A<br>(220 V) 3 Poles in Series, 40 °C 500 A<br>(220 V) 3 Poles in Series, 55 °C 400 A<br>(220 V) 3 Poles in Series, 70 °C 325 A<br>(400 V) 3 Poles in Series, 40 °C 500 A<br>(400 V) 3 Poles in Series, 55 °C 400 A<br>(400 V) 3 Poles in Series, 70 °C 325 A<br>(600 V) 3 Poles in Series, 40 °C 500 A<br>(600 V) 3 Poles in Series, 55 °C 400 A<br>(600 V) 3 Poles in Series, 70 °C 325 A |
| Rated Insulation Voltage (U <sub>i</sub> )               | acc. to UL/CSA 1000 V   |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )      | Main Circuit 8 kV   |
| Mechanical Durability                                    | 5 million   |
| Maximum Mechanical Switching Frequency                   | 300 cycles per hour   |
| Coil Operating Limits                                    | (acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\Theta \leq 70\text{ }^{\circ}\text{C}$ )   |
| Rated Control Circuit Voltage (U <sub>c</sub> )          | 50 Hz 100 ... 250 V<br>60 Hz 100 ... 250 V<br>DC Operation 100 ... 250 V  |
| Coil Consumption   | Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V-A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 10 V-A<br>Holding at Max. Rated Control Circuit Voltage DC 2 W<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 470 V-A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 470 V-A<br>Pull-in at Max. Rated Control Circuit Voltage DC 520 V-A  |
| Connecting Capacity Main Circuit                         | Bar 32 mm <sup>2</sup><br>Rigid Al-Cable 2 x 95 ... 120 mm <sup>2</sup><br>Rigid Cu-Cable 16 ... 240 mm <sup>2</sup>  |
| Connecting Capacity                                      | Flexible with Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup>   |

|                      |  |
|----------------------|--|
| Auxiliary Circuit    | Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible 1x0.75 ... 2.5 mm <sup>2</sup><br>Solid 2 x 1 ... 4 mm <sup>2</sup><br>Stranded 2 x 1 .... 4 mm <sup>2</sup> |
| 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   |
| Terminal Type        | Main Circuit: Bars   |

**Technical UL/CSA**

|                                  |   |
|----------------------------------|---|
| Maximum Operating Voltage UL/CSA | Main Circuit 1000 V                                       |
| General Use Rating UL/CSA        | (1000 V DC) 400 A<br>(440 V DC) 400 A<br>(600 V DC) 400 A |

**Environmental**

|  |  |
|--|--|
| Ambient Air Temperature                    | Operation -40 ... 70 °C<br>Storage -40 ... +70 °C  |
| Maximum Operating Altitude Permissible     | Without Derating 3000 m  |
| Resistance to Shock acc. to IEC 60068-2-27 | Shock Direction: A 5 g<br>Shock Direction: B1 5 g<br>Shock Direction: B2 5 g<br>Shock Direction: C1 5 g<br>Shock Direction: C2 5 g |

**Material Compliance**

|   |  |
|---|--|
| Conflict Minerals Reporting Template (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 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**

|                                  |                     |
|----------------------------------|---------------------|
| CB Certificate                   | SEMKO_SE-70017      |
| CQC Certificate                  | CQC2013010304595899 |
| Declaration of Conformity - CCC  | 2020980304001540    |
| Declaration of Conformity - CE   | 2CMT003517          |
| Declaration of Conformity - UKCA | 2CMT2020-006118     |
| EAC Certificate                  | 9AKK107046A8618     |
| UL Listing Card                  | UL_E73397           |

**Container Information**

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 203 mm        |
| Package Level 1 Depth / Length | 245 mm        |
| Package Level 1 Height         | 188 mm        |
| Package Level 1 Gross Weight   | 6.2 kg        |
| Package Level 1 EAN            | 7320500400784 |

Classifications

|                                    |  |
|------------------------------------|--|
| Object Classification Code         | Q  |
| ETIM 4                             | EC002552 - Power contactor, DC switching |
| ETIM 5                             | EC002552 - Power contactor, DC switching |
| ETIM 6                             | EC002552 - Power contactor, DC switching |
| ETIM 7                             | EC002552 - Power contactor, DC switching |
| ETIM 8                             | EC002552 - Power contactor, DC switching |
| eClass                             | V11.0 : 27371018                         |
| UNSPSC                             | 39121529                                 |
| IDEA Granular Category Code (IGCC) | 4763 >> Power contactor, DC switching    |
| E-Number (Finland)                 | 3709785                                  |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → GA Contactors → GAF300

