



PRODUCT-DETAILS

GAF1250-10-11-69

GAF1250-10-11 48-130V 50/60Hz / 48-130V DC  
Contactor



| General Information   |                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | GAF1250-10-11-69                                                                                                                                                                                           |
| Product ID            | 1SFL647025R6911                                                                                                                                                                                            |
| EAN                   | 7320500400814                                                                                                                                                                                              |
| Catalog Description   | GAF1250-10-11 48-130V 50/60Hz / 48-130V 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 48-130 V, AC/DC |

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

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and                  | 1SFC101045M9701 |

Manuals

|                         |                 |
|-------------------------|-----------------|
| CAD Dimensional Drawing | 2CDC001079B0201 |
|-------------------------|-----------------|

Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 210 mm |
| Product Net Depth / Length | 242 mm |
| Product Net Height         | 344 mm |
| Product Net Weight         | 15 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 ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 1260 A                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rated Operational Current DC-1 ( $I_e$ )           | (1000 V) 3 Poles in Series, 40 °C 1250 A<br>(1000 V) 3 Poles in Series, 55 °C 1040 A<br>(1000 V) 3 Poles in Series, 70 °C 875 A<br>(220 V) 3 Poles in Series, 40 °C 1250 A<br>(220 V) 3 Poles in Series, 55 °C 1040 A<br>(220 V) 3 Poles in Series, 70 °C 875 A<br>(400 V) 3 Poles in Series, 40 °C 1250 A<br>(400 V) 3 Poles in Series, 55 °C 1040 A<br>(400 V) 3 Poles in Series, 70 °C 875 A<br>(600 V) 3 Poles in Series, 40 °C 1250 A<br>(600 V) 3 Poles in Series, 55 °C 1040 A<br>(600 V) 3 Poles in Series, 70 °C 875 A |
| Rated Insulation Voltage ( $U_i$ )                 | acc. to UL/CSA 1000 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )      | Main Circuit 8 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mechanical Durability                              | 0.5 million                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Maximum Mechanical Switching Frequency             | 300 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Coil Operating Limits                              | (acc. to IEC 60947-4-1) 0.85 x $U_c$ Min. ... 1.1 x $U_c$ Max. (at $\Theta \leq 70\text{ °C}$ )                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rated Control Circuit Voltage ( $U_c$ )            | 50 Hz 48 ... 130 V<br>60 Hz 48 ... 130 V<br>DC Operation 48 ... 130 V                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 4.5 W<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 850 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 850 V·A<br>Pull-in at Max. Rated Control Circuit Voltage DC 950 V·A                                                                                                                                                    |
| Connecting Capacity Main Circuit                   | Bar 50 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connecting Capacity Auxiliary Circuit              | Flexible with Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible 2x0.75 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                             |

|                      |                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|
|                      | Solid 1 x 1 ... 4 mm <sup>2</sup><br>Stranded 1 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 600 V                                           |
| General Use Rating UL/CSA        | (1000 V DC) 1210 A<br>(440 V DC) 1210 A<br>(600 V DC) 1210 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-67143      |
| CQC Certificate                  | CQC2012010304562753 |
| Declaration of Conformity - CCC  | 2020980304001541    |
| Declaration of Conformity - CE   | 2CMT003517          |
| Declaration of Conformity - UKCA | 2CMT2020-006118     |
| EAC Certificate                  | 9AKK107046A8618     |
| UL Certificate                   | 9AKK107046A9916     |
| UL Listing Card                  | UL_E73397           |

Container Information

|                       |             |
|-----------------------|-------------|
| Package Level 1 Units | box 1 piece |
|-----------------------|-------------|

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 280 mm        |
| Package Level 1 Depth / Length | 375 mm        |
| Package Level 1 Height         | 310 mm        |
| Package Level 1 Gross Weight   | 16 kg         |
| Package Level 1 EAN            | 7320500400814 |

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    |

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → GA Contactors → GAF1250

