PRODUCT-DETAILS

# GAF1250-10-11-70

## GAF1250-10-11 100-250V 50/60Hz / 100-250V DC Contactor



### General Information

| | |
|---|---|
| Extended Product Type | GAF1250-10-11-70 |
| Product ID | 1SFL647025R7011 |
| EAN | 7320500400791 |
| Catalog Description | GAF1250-10-11 100-250V 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

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

### Popular Downloads

| | |
|---|---|
| EPLAN Data | 9AAC171154_EPLAN |
| Data Sheet, Technical Information | 1SBC100214C0202 |
| Data Sheet, Technical | 1SAC200017M0002 |

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| Information (Part 2) | |
|---|---|
| Instructions and Manuals | 1SFC101045M9701 |
| CAD Dimensional Drawing | 2CDC001079B0201 |

## Dimensions

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|---|---|
| Product Net Width | 210 mm |
| Product Net Depth / Length | 242 mm |
| Product Net Height | 344 mm |
| Product Net Weight | 15 kg |

## Technical

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|---|---|
| Number of Main Contacts NO | 1 |
| Number of Main Contacts NC | 0 |
| Number of Auxiliary Contacts NO | 1 |
| Number of Auxiliary Contacts NC | 1 |
| Number of Poles | 1P |
| Rated Operational Voltage | Main Circuit 1000 V |
| Conventional Free-air Thermal Current ($I_{th}$) | acc. to IEC 60947-4-1, Open Contactors Θ = 40 °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 Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C) |
| Rated Control Circuit Voltage ($U_c$) | 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 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 5 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 |
| Power Loss | at Rated Operating Conditions per Pole 80 W |
| Connecting Capacity Main Circuit | Bar 50 mm² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 2x 0.75 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm²<br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm²<br>Flexible 2x0.75 ... 2.5 mm²<br>Solid 2 x 1 ... 4 mm²<br>Stranded 2 x 1 .... 4 mm² |

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| | |
|---|---|
| Connecting Capacity | Bar 50 mm² |
| 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 Terminals (delivered in open position) Main Poles | M 3.5 (+,-) pozidriv 2 screw with cable clamp |
| Recommended Screw Driver | Main Circuit M12<br>Control Circuit Pozidriv 2<br>Control Circuit M3.5 |
| Tightening Torque | Cable Lug 45 N·m<br>Main Circuit 45 N·m |
| Terminal Type | Main Circuit: Bars |
| Suitable for Product Class | Block ContactorsBlock Contactors |
| Product Name | Block Contactor |

## Technical UL/CSA

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|---|---|
| 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

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|---|---|
| Ambient Air Temperature | Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C<br>Close to Contactor for Storage -40 ... 70 °C<br>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

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|---|---|
| Conflict Minerals Reporting Template (CMRT) | 9AKK108467A5658 |
| REACH Declaration | 2CMT2021-006202 |
| RoHS Declaration | 2CMT2021-006277 |
| RoHS Information | 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

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|---|---|
| CB Certificate | SEMKO_SE-70018 |
| CQC Certificate | CQC2012010304562753 |
| Declaration of Conformity - CCC | 2020980304001541 |
| Declaration of Conformity - CE | 2CMT003517 |
| Declaration of Conformity - UKCA | 2CMT2020-006118 |
| EAC Certificate | 9AKK107046A8618 |

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|---|---|
| UL Certificate | 9AKK107046A9916 |
| UL Listing Card | UL_E73397 |

## Container Information

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|---|---|
| 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 | 7320500400791 |

## External Classifications and Standards

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|---|---|
| Object Classification Code | Q |
| ETIM 7 | EC002552 - Power contactor, DC switching |
| ETIM 8 | EC002552 - Power contactor, DC switching |
| ETIM 9 | 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



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