



Electric Automation
Automation specialists

Reference: GAF300-10-11
Code: 1SFL557025R7011

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

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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

Ordering

EAN:	7320500400784
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	140.0 mm
Product Net Depth:	180.5 mm
Product Net Height:	227.0 mm
Product Net Weight:	5.800 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	200 mm
Package Level 1 Length:	220 mm
Package Level 1 Height:	280 mm

Package Level 1 Gross Weight:	5.8 kg
Package Level 1 EAN:	7320500400784

Technical

Number of Main Contacts NO:	3
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 $\theta = 40\text{ °C}$ 500 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 690 V 2500 A
Rated Operational Current DC-1 (I_e):	(1000 V) 500 A
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U_{imp}):	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_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70\text{ °C}$) °C
Rated Control Circuit Voltage (U_c):	60 Hz 100...250 V 50 Hz 100...250 V DC Operation 100...250 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 470 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V·A Pull-in at Max. Rated Control Circuit Voltage DC 520 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 470 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 10 V·A
Connecting Capacity-Main Circuit:	Rigid Al-Cable 2x95...120 mm ² Bar 32 mm Rigid Cu-Cable 16...240 mm ²
Connecting Capacity-Auxiliary Circuit:	Solid 2x1...4 mm ² Flexible with Insulated Ferrule 2x0.75...2.5 mm ² Stranded 2x1...4 mm ² Flexible 1x0.75...2.5 mm ² Flexible with Ferrule 2x0.75...2.5 mm ²
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Terminal Type:	Main Circuit: Bars

Environmental

Ambient Air Temperature:	Storage -40...+70 °C Operation -40...+70 °C
Maximum Operating Altitude Permissible:	3000 m
Resistance to Shock acc. to IEC 60068-2-27:	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: C1 5 g Shock Direction: B2 5 g Shock Direction: B1 5 g
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
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Certificates and Declarations (Document Number)

CB Certificate:	SE70017
CCC Certificate:	CQC_2013010304595899
Declaration of Conformity - CE:	2CMT003517
RoHS Information:	1SFC101067D0201

Classifications

ETIM 5:	EC002552 - Power contactor, DC switching
UNSPSC:	39121529