



Electric Automation
Automation specialists

Reference: GAF185-10-11
Code: 1SFL497025R7011

GAF185-10-11 100-250V 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:	7320500383742
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	111.5 mm
Product Net Depth:	160.0 mm
Product Net Height:	196.0 mm
Product Net Weight:	2.900 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	170 mm
Package Level 1 Length:	180 mm
Package Level 1 Height:	245 mm
Package Level 1 Gross Weight:	3.4 kg

Package Level 1 EAN:	7320500383742
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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 $q = 40 \text{ }^\circ\text{C}$ 275 A
Rated Operational Current DC-1 (I_e):	(1000 V) 275 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) $0.85 \times U_c \text{ Min.} \dots 1.1 \times U_c \text{ Max.}$ (at $\theta \leq 70 \text{ }^\circ\text{C}$) $^\circ\text{C}$
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 430 V·A Holding at Max. Rated Control Circuit Voltage DC 3.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 500 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 430 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A
Connecting Capacity-Main Circuit:	Rigid Al-Cable 25...150 mm ² Bar 24 mm Rigid Cu-Cable 6...185 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 2x0.75...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 $^\circ\text{C}$ Operation -40...+70 $^\circ\text{C}$
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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:	SE-66709
CCC Certificate:	CQC_2012010304547007
Declaration of Conformity - CE:	2CMT003508
RoHS Information:	1SFC101067D0201

Classifications

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