

PRODUCT-DETAILS

# GAF185-10-11-72

## GAF185-10-11 20-60V DC Contactor



### General Information

Extended Product Type	GAF185-10-11-72
Product ID	1SFL497025R7211
EAN	7320500383766
Catalog Description	GAF185-10-11 20-60V 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 20-60 V, DC

### Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

### Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	1SFC101046M0201
Dimension Diagram	53540923-7

## Dimensions

Product Net Width	111.5 mm
Product Net Depth / Length	160 mm
Product Net Height	196 mm
Product Net Weight	3 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 $\Theta = 40$ °C 275 A
Rated Operational Current DC-1 ( $I_e$ )	(1000 V) 3 Poles in Series, 40 °C 275 A (1000 V) 3 Poles in Series, 55 °C 250 A (1000 V) 3 Poles in Series, 70 °C 180 A (220 V) 3 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 55 °C 250 A (220 V) 3 Poles in Series, 70 °C 180 A (400 V) 3 Poles in Series, 40 °C 275 A (400 V) 3 Poles in Series, 55 °C 250 A (400 V) 3 Poles in Series, 70 °C 180 A (600 V) 3 Poles in Series, 40 °C 275 A (600 V) 3 Poles in Series, 55 °C 250 A (600 V) 3 Poles in Series, 70 °C 180 A
Rated Insulation Voltage ( $U_i$ )	acc. to UL/CSA 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 $\theta \leq 70$ °C)
Rated Control Circuit Voltage ( $U_c$ )	DC Operation 20 ... 60 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 430 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 430 V·A Pull-in at Max. Rated Control Circuit Voltage DC 500 V·A
Connecting Capacity Main Circuit	Bar 24 mm <sup>2</sup> Rigid Al-Cable 25 ... 150 mm <sup>2</sup> Rigid Cu-Cable 6 ... 185 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup> Flexible 2x0.75 ... 2.5 mm <sup>2</sup> Solid 2 x 1 ... 4 mm <sup>2</sup> Stranded 2 x 1 ... 4 mm <sup>2</sup>
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

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(1000 V DC) 250 A (440 V DC) 250 A (600 V DC) 250 A

## Environmental

Ambient Air Temperature	Operation -40 ... +80 °C 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 Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Certificates and Declarations

CB Certificate	SEMKO_SE-66709
CQC Certificate	CQC2012010304547007
cUL Certificate	UL_20100927-E73397
Declaration of Conformity - CCC	2020980304001543
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	178 mm
Package Level 1 Depth / Length	232 mm
Package Level 1 Height	167 mm
Package Level 1 Gross Weight	3.6 kg
Package Level 1 EAN	7320500383766

## 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



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## Categories

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

