



PRODUCT-DETAILS

# GAF185-10-11-72

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



360°

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	1SFC101046M0201

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 <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors $\Theta$ = 40 °C 275 A
Rated Operational Current DC-1 (I <sub>e</sub> )	(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 <sub>i</sub> )	acc. to UL/CSA 1000 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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 <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\Theta$ ≤ 70 °C)
Rated Control Circuit Voltage (U <sub>c</sub> )	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 1000 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 ... 70 °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

## 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-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
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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 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 → GAF185

