

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

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:	1SFC101004B0201
Instructions and Manuals:	1SFC101046M0201
Dimension Diagram:	53540923-7

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

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 $q = 40\text{ °C}$ 275 A

Rated Operational Current DC-1 (I_e):	(220 V) 3 Poles in Series, 40 °C 275 A (400 V) 3 Poles in Series, 40 °C 275 A (600 V) 3 Poles in Series, 40 °C 275 A (1000 V) 3 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 55 °C 250 A (400 V) 3 Poles in Series, 55 °C 250 A (600 V) 3 Poles in Series, 55 °C 250 A (1000 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, 70 °C 180 A (600 V) 3 Poles in Series, 70 °C 180 A (1000 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) °C
Rated Control Circuit Voltage (U_c):	DC Operation 20 ... 60 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 2 x 1 ... 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm ² Stranded 2 x 1 ... 4 mm ² Flexible 2x0.75 ... 2.5 mm ² Flexible with Ferrule 1 x 0.75 ... 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: B2 5 g
Shock Direction: C1 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 Main Circuit 600 V

UL/CSA:

General Use Rating UL/CSA: (440 V DC) 250 A
(600 V DC) 250 A
(1000 V DC) 250 A

Certificates and Declarations (Document Number)

CB Certificate: SEMKO_SE-66709

CCC Certificate: CQC_2012010304547007

cUL Certificate: UL_20100927-E73397

Declaration of Conformity - CE: 2CMT003508

Environmental Information: 1SFC101066D0201

Instructions and Manuals: 1SFC101046M0201

RoHS Information: 1SFC101067D0201

UL Listing Card: UL_E73397

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: 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

UNSPSC: 39121529

