

# GAF185-10-11-70



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

## General Information

<b>Extended Product Type:</b>	GAF185-10-11-70
<b>Product ID:</b>	1SFL497025R7011
<b>EAN:</b>	7320500383742
<b>Catalog Description:</b>	GAF185-10-11 100-250V 50/60Hz / 100-250V DC Contactor
<b>Long Description:</b>	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

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	1SFC101004B0201
<b>Instructions and Manuals:</b>	1SFC101046M0201
<b>Dimension Diagram:</b>	53540923-7

## Dimensions

<b>Product Net Width:</b>	111.5 mm
<b>Product Net Depth:</b>	160.0 mm
<b>Product Net Height:</b>	196.0 mm
<b>Product Net Weight:</b>	2.900 kg

## Technical

<b>Number of Main Contacts NO:</b>	1
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Rated Operational Voltage:</b>	Main Circuit 1000 V
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	acc. to IEC 60947-4-1, Open Contactors $q = 40$ °C 275 A

<b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>	(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
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to UL/CSA 1000 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 8 kV
<b>Mechanical Durability:</b>	5 million
<b>Maximum Mechanical Switching Frequency:</b>	300 cycles per hour
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at $\theta \leq 70$ °C) °C
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
<b>Coil Consumption:</b>	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
<b>Connecting Capacity Main Circuit:</b>	Rigid Al-Cable 25 ... 150 mm <sup>2</sup> Bar 24 mm Rigid Cu-Cable 6 ... 185 mm <sup>2</sup>
<b>Connecting Capacity Auxiliary Circuit:</b>	Solid 2 x 1 ... 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup> Stranded 2 x 1 ... 4 mm <sup>2</sup> Flexible 2x0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup>
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
<b>Terminal Type:</b>	Main Circuit: Bars
<b>Environmental</b>	
<b>Ambient Air Temperature:</b>	Storage -40 ... +70 °C Operation -40 ... +70 °C
<b>Maximum Operating Altitude Permissible:</b>	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

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**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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**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

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**CCC Certificate:** CQC\_2012010304547007

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**cUL Certificate:** UL\_20100927-E73397

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**Declaration of Conformity - CE:** 2CMT003508

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**Environmental Information:** 1SFC101066D0201

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**Instructions and Manuals:** 1SFC101046M0201

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**RoHS Information:** 1SFC101067D0201

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**UL Listing Card:** UL\_E73397

## Container Information

**Package Level 1 Units:** 1 piece

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**Package Level 1 Width:** 170 mm

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**Package Level 1 Length:** 180 mm

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**Package Level 1 Height:** 245 mm

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**Package Level 1 Gross Weight:** 3.4 kg

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**Package Level 1 EAN:** 7320500383742

## Classifications

**Object Classification Code:** Q

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**ETIM 4:** EC002552 - Power contactor, DC switching

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**ETIM 5:** EC002552 - Power contactor, DC switching

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**ETIM 6:** EC002552 - Power contactor, DC switching

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**UNSPSC:** 39121529

