

PRODUCT-DETAILS

GAF300-10-11-70

GAF300-10-11 100-250V 50/60Hz / 100-250V

DC Contactor



General Information

Extended Product Type	GAF300-10-11-70
Product ID	1SFL557025R7011
EAN	7320500400784
Catalog Description	GAF300-10-11 100-250V 50/60Hz / 100-250V 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 100-250 V, AC/DC

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	1SFC101046M0201
Dimension Diagram	53540930-2

Dimensions

Product Net Width	140 mm
Product Net Depth / Length	180.5 mm
Product Net Height	227 mm
Product Net Weight	5.5 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 °C 500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 2500 A
Rated Operational Current DC-1 (I_e)	(1000 V) 3 Poles in Series, 40 °C 500 A (1000 V) 3 Poles in Series, 55 °C 400 A (1000 V) 3 Poles in Series, 70 °C 325 A (220 V) 3 Poles in Series, 40 °C 500 A (220 V) 3 Poles in Series, 55 °C 400 A (220 V) 3 Poles in Series, 70 °C 325 A (400 V) 3 Poles in Series, 40 °C 500 A (400 V) 3 Poles in Series, 55 °C 400 A (400 V) 3 Poles in Series, 70 °C 325 A (600 V) 3 Poles in Series, 40 °C 500 A (600 V) 3 Poles in Series, 55 °C 400 A (600 V) 3 Poles in Series, 70 °C 325 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)	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 10 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 470 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 470 V·A Pull-in at Max. Rated Control Circuit Voltage DC 520 W
Connecting Capacity Main Circuit	Bar 32 mm² Rigid Al-Cable 2 x 95 ... 120 mm² Rigid Cu-Cable 16 ... 240 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm² Flexible 1x0.75 ... 2.5 mm²

Solid 2 x 1 ... 4 mm²
Stranded 2 x 1 4 mm²

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) 400 A (440 V DC) 400 A (600 V DC) 400 A

Environmental

Ambient Air Temperature	Operation -40 ... +80 °C Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 K40 Shock Direction: B1 5 K40 Shock Direction: B2 5 K40 Shock Direction: C1 5 K40 Shock Direction: C2 5 K40
RoHS Status	Following EU Directive 2015/863 July 22, 2019 (RoHS 3)

Certificates and Declarations (Document Number)

CB Certificate	SEMKO_SE-70017
CCC Certificate	CQC_2013010304595899
Declaration of Conformity - CE	2CMT003517
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101066D0201
Instructions and Manuals	1SFC101046M0201
RoHS Information	2CMT003517
UL Listing Card	UL_E73397

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	203 mm
Package Level 1 Depth / Length	245 mm
Package Level 1 Height	188 mm
Package Level 1 Gross Weight	6.2 kg
Package Level 1 EAN	7320500400784

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	
UNSPSC		39121529
IDEA Granular Category Code (IGCC)	4763 >> Power contactor, DC switching	

Categories

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

