



PRODUCT-DETAILS

GAF1650-10-11-70

GAF1650-10-11 100-250V 50/60Hz / 100-250V DC Contactor



General Information	
Extended Product Type	GAF1650-10-11-70
Product ID	1SFL677025R7011
EAN	7320500408810
Catalog Description	GAF1650-10-11 100-250V 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	1SBC100214C0202
Instructions and	1SFC101047M9701

Manuals

CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	53540930-7

Dimensions

Product Net Width	438 mm
Product Net Depth / Length	244 mm
Product Net Height	392 mm
Product Net Weight	33 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 $\Theta = 40\text{ °C}$ 1650 A
Rated Operational Current DC-1 (I_e)	(1000 V) 3 Poles in Series, 40 °C 1650 A (1000 V) 3 Poles in Series, 55 °C 1450 A (1000 V) 3 Poles in Series, 70 °C 1270 A (220 V) 3 Poles in Series, 40 °C 1650 A (220 V) 3 Poles in Series, 55 °C 1450 A (220 V) 3 Poles in Series, 70 °C 1270 A (400 V) 3 Poles in Series, 40 °C 1650 A (400 V) 3 Poles in Series, 55 °C 1450 A (400 V) 3 Poles in Series, 70 °C 1270 A (600 V) 3 Poles in Series, 40 °C 1650 A (600 V) 3 Poles in Series, 55 °C 1450 A (600 V) 3 Poles in Series, 70 °C 1270 A
Rated Insulation Voltage (U_i)	acc. to UL/CSA 1000 V
Rated Impulse Withstand Voltage (U_{imp})	Main Circuit 8 kV
Mechanical Durability	0.5 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 $\theta \leq 70\text{ °C}$)
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 48 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V·A Holding at Max. Rated Control Circuit Voltage DC 16 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 1900 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 1900 V·A Pull-in at Max. Rated Control Circuit Voltage DC 1700 V·A
Connecting Capacity Main Circuit	Bar 100 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ²

	Flexible 2x0.75 ... 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) 1650 A (440 V DC) 1650 A (600 V DC) 1650 A

Environmental

Ambient Air Temperature	Operation -40 ... 70 °C Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	Without Derating 3000 m

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-76672
CQC Certificate	CQC2012010304550984
Declaration of Conformity - CCC	2020980304001789
Declaration of Conformity - CE	2CMT003517
Declaration of Conformity - UKCA	2CMT2020-006118
EAC Certificate	9AKK107046A8618
UL Certificate	9AKK107046A9917
UL Listing Card	UL_E73397

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	555 mm
Package Level 1 Depth / Length	365 mm

Package Level 1 Height	500 mm
Package Level 1 Gross Weight	35 kg
Package Level 1 EAN	7320500408810

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 → GAF1650

