



PRODUCT-DETAILS

GAF460-10-11-68

GAF460-10-11 24-60V DC Contactor



General Information

Extended Product Type	GAF460-10-11-68
Product ID	1SFL597025R6811
EAN	7320500383995
Catalog Description	GAF460-10-11 24-60V 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 24-60 V, DC

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SFC101045M9701
CAD Dimensional	2CDC001079B0201

Drawing

Dimension Diagram

53540919-59

Dimensions

Product Net Width	186 mm
Product Net Depth / Length	216 mm
Product Net Height	278 mm
Product Net Weight	10.6 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 $\Theta = 40\text{ °C}$ 700 A
Rated Operational Current DC-1 (I_e)	(1000 V) 3 Poles in Series, 40 °C 700 A (1000 V) 3 Poles in Series, 55 °C 600 A (1000 V) 3 Poles in Series, 70 °C 480 A (220 V) 3 Poles in Series, 40 °C 700 A (220 V) 3 Poles in Series, 55 °C 600 A (220 V) 3 Poles in Series, 70 °C 480 A (400 V) 3 Poles in Series, 40 °C 700 A (400 V) 3 Poles in Series, 55 °C 600 A (400 V) 3 Poles in Series, 70 °C 480 A (600 V) 3 Poles in Series, 40 °C 700 A (600 V) 3 Poles in Series, 55 °C 600 A (600 V) 3 Poles in Series, 70 °C 480 A
Rated Insulation Voltage (U_i)	acc. to UL/CSA 1000 V
Rated Impulse Withstand Voltage (U_{imp})	Main Circuit 8 kV
Mechanical Durability	3 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)	DC Operation 24 ... 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 4 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 890 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 890 V·A Pull-in at Max. Rated Control Circuit Voltage DC 990 V·A
Connecting Capacity Main Circuit	Bar 47 mm ² Rigid Al-Cable 2x240 mm ² Rigid Cu-Cable 240 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 mm ² Solid 2 x 1 ... 4 mm ² Stranded 2 x 1 ... 4 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

Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(1000 V DC) 650 A (440 V DC) 650 A (600 V DC) 650 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)

ABB EcoSolutions	
Environmental Product Declaration - EPD	1SFC100105D0201

Certificates and Declarations	
CB Certificate	SEMKO SE-66699
CQC Certificate	CQC2012010304547008
Declaration of Conformity - CCC	2020980304001542
Declaration of Conformity - CE	2CMT003517
Declaration of Conformity - UKCA	2CMT2020-006118
EAC Certificate	9AKK107046A8618
UL Certificate	20130517-E73397
UL Listing Card	UL E73397

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	280 mm
Package Level 1 Depth / Length	375 mm
Package Level 1 Height	310 mm
Package Level 1 Gross	12 kg

Weight

Package Level 1 EAN7320500383995

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 → GAF460

