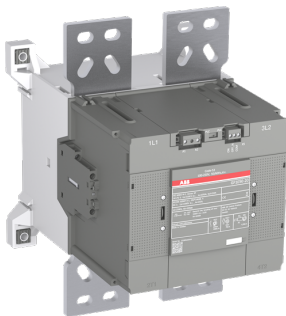




PRODUCT-DETAILS

GF1050-20-22-51

GF1050-20-22-51 Contactor



General Information	
Extended Product Type	GF1050-20-22-51
Product ID	1SFL637731R5122
EAN	7320500541173
Catalog Description	GF1050-20-22-51 Contactor
Long Description	A 2-phase Contactor suitable for PV solar power applications up to max 1500V DC. Operated with wide voltage range 24-60V DC/AC 50/60Hz

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	8536490099

Popular Downloads	
Data Sheet, Technical Information	1SBC100218B0201
Instructions and Manuals	1SFC100003M0001
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	253 mm
Product Net Depth / Length	300 mm
Product Net Height	355 mm
Product Net Weight	14.3 kg

Technical

Number of Main Contacts NO	2
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Rated Operational Voltage	Main Circuit 1500 V
Rated Frequency (f)	Control Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I_{th})	acc. to IEC 60947-4-1, Open Contactors $\Theta = 40^\circ\text{C}$ 1100 A acc. to IEC 60947-4-1, Open Contactors $\Theta = 60^\circ\text{C}$ 1050 A acc. to IEC 60947-4-1, Open Contactors $\Theta = 70^\circ\text{C}$ 850 A
Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40°C Ambient Temp, in Free Air, from a Cold State 10 s 6336 A at 40°C Ambient Temp, in Free Air, from a Cold State 15 min 1392 A at 40°C Ambient Temp, in Free Air, from a Cold State 1 min 3800 A at 40°C Ambient Temp, in Free Air, from a Cold State 1 s 7600 A at 40°C Ambient Temp, in Free Air, from a Cold State 30 s 5207 A
Maximum Electrical Switching Frequency	15 cycles per hour
Rated Operational Current DC-1 (I_e)	(1500 V DC) 2-Pole, 40°C 210 A
Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1500 V acc. to UL/CSA 1500 V
Rated Impulse Withstand Voltage (U_{imp})	Main Circuit 8 kV
Mechanical Durability	50000 cycle
Maximum Mechanical Switching Frequency	60 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 $\Theta \leq 70^\circ\text{C}$)
Rated Control Circuit Voltage (U_c)	50 Hz 24...60 V 60 Hz 24...60 V DC Operation 24 ... 60 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 17 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 17 V·A Holding at Max. Rated Control Circuit Voltage DC 12 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 600 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 600 V·A Pull-in at Max. Rated Control Circuit Voltage DC 700 V·A
Operate Time	Between Coil De-energization and NO Contact Opening 33...70 ms Between Coil Energization and NO Contact Closing 50...120 ms
Connecting Capacity Main Circuit	Solid 600 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2x1 ... 4 mm ² Stranded 2x1 ... 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
Rated Operational Current DC-PV3 (I_g)	(1500 V DC) 2-Pole, 60°C 1050 A (1500 V DC) 2-Pole, 70°C 850 A

Technical UL/CSA

Maximum Operating
Voltage UL/CSA

Main Circuit 1500 V

Environmental

Ambient Air Temperature

Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C

Close to Contactor for Storage -40 ... 70 °C

Maximum Operating
Altitude Permissible

Without Derating 2000 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

ABS Certificate

9AKK108466A1583

BV Certificate

9AKK108466A6837

CB Certificate

1SFC100041D0101

CQC Certificate

CQC20012271919

Declaration of Conformity
- CCC

2020980304002803

Declaration of Conformity
- CE

1SFC100019D2701

Declaration of Conformity
- UKCA

2CMT2020-006118

DNV Certificate

9AKK108466A1584

LR Certificate

9AKK108466A2274

UL Certificate

1SFC100021D0101

Container Information

Package Level 1 Units

box 1 piece

Package Level 1 Width

402 mm

Package Level 1 Depth /
Length

305 mm

Package Level 1 Height

415 mm

Package Level 1 Gross
Weight

16.45 kg

Classifications

ETIM 6

EC002552 - Power contactor, DC switching

ETIM 7

EC002552 - Power contactor, DC switching

ETIM 8

EC002552 - Power contactor, DC switching

eClass

V11.0 : 27371018

UNSPSC

39121529

IDEA Granular Category	4763 >> Power contactor, DC switching
Code (IGCC)	
E-Number (Norway)	4115802

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → GF Contactors → GF1050

