

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
Classifications	
ETIM 6	EC002552 - Power contactor, DC switching

ETIM 7	EC002552 - Power contactor, DC switching
IDEA Granular Category Code (IGCC)	4755 >> Contactors

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	

Certificates and Declarations (D	Document Number)
CB Certificate	1SFC100041D010
cUL Certificate	1SFC100021D0107
Declaration of Conformity - CE	1SFC100019D2701
Instructions and Manuals	1SFC100003M000 ²
RoHS Information	1SFC100019D2701
Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 1500 V
Environmental	
Ambient Air Temperature	Close to Contactor for Storage -40 +70 °C Close to Contactor without Thermal O/L Relay (0.85 1.1 Uc) -40 +70 °C
Maximum Operating Altitude Permissible	2000 m
RoHS Status	Following EU Directive 2015/863 July 22, 2019 (RoHS 3)
Technical Number of Main Contacts NO	
Number of Main Contacts NC	(
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Rated Operational Voltage	Main Circuit 1500 V
Rated Frequency (f)	Control Circuit 50/60Hz Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 1100 A acc. to IEC 60947-4-1, Open Contactors q = 60 °C 1050 A acc. to IEC 60947-4-1, Open Contactors q = 70 °C 850 A
Rated Short-time Withstand Current (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 hou
Rated Operational Current DC-1 (I _e)	(1500 V DC) 2-Pole, 40 °C 210 A
	acc. to UL/CSA 1500 V
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1500 V

Mechanical Durability	50000 cycle
Maximum Mechanical	60 cycles per hour
Switching Frequency	
Coil Operating Limits	(acc. to IEC 60947-4-1) $0.85 \times \text{Uc Min.} \dots 1.1 \times \text{Uc Max.} (at \theta \le 70 \text{ °C})$
Rated Control Circuit Voltage (U _c)	50 Hz 2460 V 60 Hz 2460 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 W
Operate Time	Between Coil De-energization and NO Contact Opening 3370 ms Between Coil Energization and NO Contact Closing 50120 ms
Connecting Capacity Main Circuit	Solid 600 m²
Connecting Capacity	Flexible with Ferrule 2x 0.75 2.5 mm ²
Auxiliary Circuit	Flexible with Insulated Ferrule 2x 0.75 2.5 mm ² Flexible 2x0.75 2.5 m ²
	Solid 2x1 4 m² Stranded 2x1 4 m²
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 _e)	(1500 V DC) 2-Pole, 60 °C 1050 A (1500 V DC) 2-Pole, 70 °C 850 A
Dimensions	
Product Net Width	253 mm
Product Net Depth / Length	300 mm
Product Net Height	355 mm
Product Net Weight	14.3 kg
Popular Downloads	
Data Sheet, Technical Information	1SBC100218B0201
Instructions and Manuals	1SFC100003M0001
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	8536490099

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

