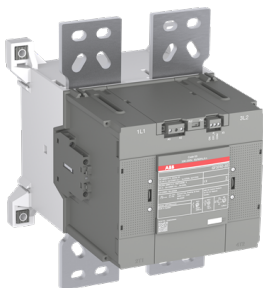




PRODUCT-DETAILS

GF1050-20-22-53**GF1050-20-22-53 Contactor****General Information**

Extended Product Type:	GF1050-20-22-53
Product ID:	1SFL637731R5322
EAN:	7320500540954
Catalog Description:	GF1050-20-22-53 Contactor
Long Description:	A 2-phase Contactor suitable for PV solar power applications up to max 1500V DC. Operated with wide voltage range 100-250V AC 50/60Hz and DC
Display Name:	GF1050-20-22-53

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	8536490099

Popular Downloads

Data Sheet, Technical Information:	1SBC100214C0202
---	-----------------

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
Number of Poles:	2P
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 $\Theta = 40\text{ °C}$ 1100 A acc. to IEC 60947-4-1, Open Contactors $\Theta = 60\text{ °C}$ 1050 A acc. to IEC 60947-4-1, Open Contactors $\Theta = 70\text{ °C}$ 850 A
Rated Operational Current DC-1 (I _e):	(1500 V DC) 2-Pole, 40 °C 210 A
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
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
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
Maximum Electrical Switching Frequency:	15 cycles per hour
Mechanical Durability:	0.05 million
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 $\theta \leq 70\text{ °C}$)
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 18.6 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 18.6 V·A Holding at Max. Rated Control Circuit Voltage DC 4.1 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 615 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 615 V·A Pull-in at Max. Rated Control Circuit Voltage DC 770 W
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
Connecting Capacity:	Solid 600 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
Product Name:	Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 1500 V
--	---------------------

Environmental

Ambient Air Temperature:	Operation -40 ... 70 °C 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 Declaration:	2CMT2021-006277
RoHS Information:	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

ABB EcoSolutions:	Yes
ABB Site Meeting Group Waste To Landfill Target:	UL 2799 Zero Waste To Landfill Validation available
EcoSolutions Profile:	1SFC100125C0369
End Of Life Disassembling Instructions:	1SFC100112M0006
Environmental Product Declaration - EPD:	1SFC100132D0201
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 71.2 %

Certificates and Declarations

ABS Certificate:	9AKK108466A1583
BV Certificate:	9AKK108466A6837
CB Certificate:	1SFC100041D0101
CCC Certificate:	2024010304645692
cULus Certificate:	9AKK108469A9190
Declaration of Conformity - CE:	1SFC100019D2701
Declaration of Conformity - UKCA:	2CMT2020-006118
DNV Certificate:	9AKK108466A1584
KC Certificate:	9AKK108472A2581
LR Certificate:	9AKK108466A2274

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
Package Level 1 EAN:	7320500540954

External Classifications and Standards

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
E-Number (Norway):	4115803

Categories

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

Products > Low Voltage Products and Systems > Control Products > Contactors > DC Switching Contactors > GF Contactors > GF1050

