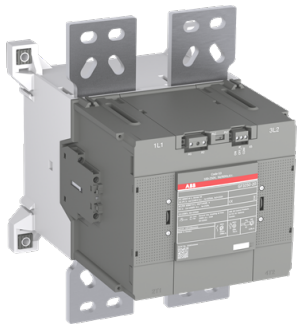


Representative Image

Alternate Catalog No. GF1050-20-22-53
Catalog No. 1SFL637731R5322

Description: GF1050-20-22-53 Contactor

UPC No 7320500540954

Home > Contactors & Starters > UL Listed IEC Contactors > AF Contactors

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

Descriptors

Category	AF Contactors
Block Contactor Type	2-Pole Contactor

Specifications

Product Type	GF
General Use Rating UL/CSA	(1500 V DC) 210 A
Terminal Type	Main Circuit: Bars
Rated Control Circuit Voltage	50 Hz /60 Hz DC Operation 100 ... 250 V
Number of Main Contacts NO	2
Number of Main Contacts NC	0
Maximum Operating Voltage UL/CSA	Main Circuit 1500 V
Number of Auxiliary Contacts NO	2
Reference 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
Rated Operational Voltage	Main Circuit 1500 V
Number of Auxiliary Contacts NC	2
Maximum Operating Altitude Permissible	2000 m
Conventional Free-air Thermal Current	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 Frequency	Control Circuit 50 Hz Control Circuit 60 Hz
Rated Short-time Withstand Current	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 Insulation Voltage	acc. to UL/CSA 1500 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1500 V
Mechanical Durability	50000 cycle
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C)
Maximum Mechanical Switching Frequency	60 cycles per hour
Operate Time	Between Coil De-energization and NO Contact Opening 33...70 ms

by ABB

Specifications

Secondary Rated Impulse Withstand Voltage	Main Circuit 8 kV
Connecting Capacity Main Circuit	Solid 600 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
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x0.75 ... 2.5 m² Flexible with Insulated Ferrule 2x0.75 ... 2.5 m² Flexible 2x0.75 ... 2.5 m² Solid 2x1 ... 4 m² Stranded 2x1 ... 4 m²
Rated Operational Current DC-PV3	(1500 V DC) 2-Pole, 60 °C 1050 A (1500 V DC) 2-Pole, 70 °C 850 A

Classifications

ETIM 6.0	EC002552 - Power contactor, DC switching
ETIM 7	EC002552 - Power contactor, DC switching
IDEA Granular Category Code (IGCC)	4755 >> Contactors

Dimensions

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

Package Information

Package Level 1 Width	402 mm
Package Level 1 Height	415 mm
Package Level 1 Depth / Length	305 mm
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	16.45 kg

Ordering

Minimum Order Quantity	1
Customs Tariff Number	8536490099