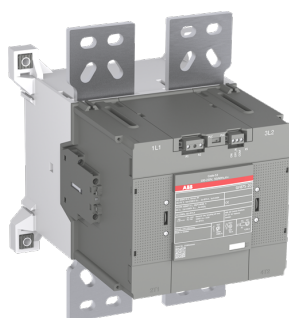


PRODUCT-DETAILS

GF875-20-22-53

GF875-20-22-53 Contactor



General Information

| | |
|-----------------------|---|
| Extended Product Type | GF875-20-22-53 |
| Product ID | 1SFL617731R5322 |
| EAN | 7320500541241 |
| Catalog Description | GF875-20-22-53 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 |

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 |

Package Level 1 Gross
Weight

16.45 kg

Certificates and Declarations (Document Number)

| | |
|-----------------------------------|-----------------|
| CB Certificate | 1SFC100041D0101 |
| cUL Certificate | 1SFC100021D0101 |
| Declaration of Conformity - CE | 1SFC100019D2701 |
| Instructions and Manuals | 1SFC100003M0001 |
| 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 | 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 50/60Hz Hz |
| Conventional Free-air Thermal Current (I_{th}) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 900 A acc. to IEC 60947-4-1, Open Contactors q = 60 °C 875 A acc. to IEC 60947-4-1, Open Contactors q = 70 °C 650 A |
| Rated Short-time Withstand Current (I_{cw}) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 5184 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1139 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3109 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 6218 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4150 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 UL/CSA 1500 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 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 Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70^\circ\text{C}$) |
| 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 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 33...70 ms Between Coil Energization and NO Contact Closing 50...120 ms |
| Connecting Capacity Main Circuit | Solid 600 m 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 m ² Solid 2x1 ... 4 m ² Stranded 2x1 ... 4 m 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_{θ}) | (1500 V DC) 2-Pole, 60 °C 875 A (1500 V DC) 2-Pole, 70 °C 650 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 → Control Products → Contactors → Block Contactors

