

Representative Image

# Alternate Catalog No. AF1250-30-22-70
# Catalog No. 1SFL647001R7022

**Description: AF1250-30-22 100-250V 50/60Hz / 100-250V DC Contactor**

**UPC No 7320500355107**

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

A 3-phase Contactor suitable for various applications such as, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC

## Descriptors

| | |
|---|---|
| Category | AF Contactors |
| Block Contactor Type | 3-Pole Contactor |

## Specifications

| | |
|---|---|
| Product Type | AF |
| General Use Rating UL/CSA | (600 V AC) 1210 A |
| Object Classification Code | Q |
| Terminal Type | Main Circuit: Bars |
| Rated Control Circuit Voltage | 50 Hz /60 Hz DC Operation 100 ... 250 V |
| Number of Main Contacts NO | 3 |
| Number of Main Contacts NC | 0 |
| Maximum Operating Voltage UL/CSA | Main Circuit 600 V |
| Number of Auxiliary Contacts NO | 2 |
| RoHS Status | Following EU Directive 2011/65/EU |
| Reference Ambient Air Temperature | Close to Contactor for Storage -40 ... +70 °C<br>Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... +50 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +70 °C |
| Rated Operational Voltage | Main Circuit 1000 V |
| Number of Auxiliary Contacts NC | 2 |
| Maximum Operating Altitude Permissible | 3000 m |
| Rated Operational Current AC-1 | (1000 V) 40 °C 1260 A<br>(1000 V) 55 °C 1040 A<br>(1000 V) 70 °C 875 A<br>(690 V) 40 °C 1260 A<br>(690 V) 55 °C 1040 A<br>(690 V) 70 °C 875 A |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x Ie AC-3 |
| Conventional Free-air Thermal Current | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 1050 A |
| Rated Frequency | Main Circuit 50Hz<br>Main Circuit 60 Hz |

by ABB

## Specifications

| | |
|---|---|
| Rated Short-time Withstand Current | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 7200 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1500 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 4000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 8000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 5200 A |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x Ie AC-3 |
| Maximum Electrical Switching Frequency | AC-1 300 cycles per hour |
| Rated Operational Current DC-5 | (220 V) 3 Poles in Series, 40 °C 1250 A<br>(600 V) 3 Poles in Series, 40 °C 1250 A<br>(850 V) 3 Poles in Series, 40 °C 1250 A |
| Rated Insulation Voltage | acc. to UL/CSA 600 V<br>acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 7500 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 7000 A |
| Mechanical Durability | 0.5 million |
| Rated Operational Current DC-3 | (220 V) 3 Poles in Series, 40 °C 1250 A<br>(600 V) 3 Poles in Series, 40 °C 1250 A<br>(850 V) 3 Poles in Series, 40 °C 1250 A |
| 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 | 300 cycles per hour |
| Operate Time | Between Coil De-energization and NC Contact Closing 50 ... 70 ms<br>Between Coil De-energization and NO Contact Opening 53 ... 73 ms<br>Between Coil Energization and NC Contact Opening 45 ... 115 ms<br>Between Coil Energization and NO Contact Closing 50 ... 120 ms |
| Secondary Rated Impulse Withstand Voltage | Main Circuit 8 kV |
| Connecting Capacity Main Circuit | Bar 50 mm |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V - A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V - A<br>Holding at Max. Rated Control Circuit Voltage DC 5 V - A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 880 V - A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 880 V - A<br>Pull-in at Max. Rated Control Circuit Voltage DC 880 V - A |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 |
| Connecting Capacity Auxiliary Circuit | Flexible 2x0.75 ... 2.5 m²<br>Solid 1 x 1 ... 4 m²<br>Stranded 1 x 1 .... 4 m² |

## Classifications

| | |
|---|---|
| ETIM 4 | EC000066 - Magnet contactor, AC-switching |
| ETIM 6.0 | EC000066 - Power contactor, AC switching |
| ETIM 7 | EC000066 - Power contactor, AC switching |
| IDEA Granular Category Code (IGCC) | 4755 >> Contactors |
| ETIM 5.0 | EC000066 - Magnet contactor, AC-switching |

## Dimensions

| | |
|---|---|
| Product Net Weight | 14.6 kg |
| Product Net Depth / Length | 242 mm |
| Product Net Width | 210 mm |
| Product Net Height | 344 mm |

## Package Information

| | |
|---|---|
| Package Level 1 Width | 280 mm |
| Package Level 1 Height | 310 mm |

## Package Information

| | |
|---|---|
| Package Level 1 Depth / Length | 375 mm |
| Package Level 1 EAN | 7320500355107 |
| Package Level 1 Units | box 1 piece |
| Package Level 1 Gross Weight | 16 kg |

## Ordering

| | |
|---|---|
| Minimum Order Quantity | 1 |
| Customs Tariff Number | 85364900 |