

Alternate Catalog No. AF205-40-22-14 Catalog No. 1SFL527102R1422

Description: AF205-40-22-14 Contactor

UPC No 7320500503621

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

A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 250-500 V, 50/60 Hz and DC



Representative Image

Descriptors

| | |
|----------------------|------------------|
| Category | AF Contactors |
| Block Contactor Type | 4-Pole Contactor |

Specifications

| | |
|--|---|
| Product Type | AF |
| General Use Rating UL/CSA | (600 V AC) 300 A |
| Object Classification Code | Q |
| Terminal Type | Main Circuit: Bars |
| Rated Control Circuit Voltage | 50 Hz /60 Hz DC Operation 250 ... 500 V |
| Number of Main Contacts NO | 4 |
| 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 Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... +50 °C 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 275 A (1000 V) 60 °C 250 A (1000 V) 70 °C 200 A (690 V) 40 °C 350 A (690 V) 60 °C 300 A (690 V) 70 °C 240 A |
| Rated Operational Power AC-3 | (220 / 230 / 240 V) 55 KWT (380 / 400 V) 110 KWT (415 V) 110 KWT (440 V) 132 KWT |
| 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 350 A |
| Rated Frequency | Main Circuit 50Hz |

Specifications

| | |
|--|--|
| Rated Short-time Withstand Current | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 A |
| Rated Operational Current AC-3 | (220 / 230 / 240 V) 55 °C 205 A (380 / 400 V) 55 °C 205 A (415 V) 55 °C 205 A (440 V) 55 °C 205 A |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x I _e AC-3 |
| Maximum Electrical Switching Frequency | AC-1 300 cycles per hour |
| Short-Circuit Protective Devices | gG Type Fuses 400 A |
| Rated Insulation Voltage | acc. to UL/CSA 600 V 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 I _e > 100 A) at 440 V 3500 A |
| Mechanical Durability | 5 million |
| Coil Operating Limits | (acc. to IEC 60947-4-1) 0.85 x U _c Min. ... 1.1 x U _c Max. (at θ ≤ 70 °C) |
| Maximum Mechanical Switching Frequency | 300 cycles per hour |
| Operate Time | Between Coil De-energization and NO Contact Opening 45 ... 80 ms Between Coil Energization and NO Contact Closing 25 ... 60 ms |
| Secondary Rated Impulse Withstand Voltage | Main Circuit 8 kV |
| Connecting Capacity Main Circuit | Flexible 1 x 6 ... 120 mm Rigid Al-Cable 1 x 95 ... 185 m ² Rigid Cu-Cable 2 x 50 ... 120 m ² |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V - A Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V - A Holding at Max. Rated Control Circuit Voltage DC 3.9 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 185 V - A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 185 V - A Pull-in at Max. Rated Control Circuit Voltage DC 188 W |
| 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 1 x 0.75 ... 2.5 m ² Flexible 2x0.75 ... 2.5 m ² Stranded 2 x 1 4 m ² |

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 | 3.3kg |
| Product Net Depth / Length | 152.5 mm |
| Product Net Width | 140 mm |
| Product Net Height | 196 mm |

Package Information

| | |
|--------------------------------|---------------|
| Package Level 1 Width | 166 mm |
| Package Level 1 Height | 180 mm |
| Package Level 1 Depth / Length | 238 mm |
| Package Level 1 EAN | 7320500503621 |

Package Information

| | |
|------------------------------|-------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Gross Weight | 3.9 kg |

Ordering

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