



Representative Image

**Alternate Catalog No. AF146-30-11-11****Catalog No. 1SFL467001R1111****Description: AF146-30-11-11 Contactor****UPC No 7320500482056****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 24-60 V, 50 and 60 Hz, 20-60 V DC

**Descriptors**

Category	AF Contactors
Block Contactor Type	3-Pole Contactor

**Specifications**

Product Type	AF
General Use Rating UL/CSA	(600 V AC) 200 A
Object Classification Code	Q
Terminal Type	Double Clamp
Rated Control Circuit Voltage	50 Hz /60 Hz 24 ... 60 V DC Operation 20 ... 60 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	1
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	1
Maximum Operating Altitude Permissible	3000 m
Rated Operational Current AC-1	(1000 V) 40 °C 225 A (1000 V) 55 °C 200 A (1000 V) 70 °C 175 A (690 V) 40 °C 225 A (690 V) 55 °C 200 A (690 V) 70 °C 175 A  (1000 V) 75 KWT (220 / 230 / 240 V) 45 KWT (380 / 400 V) 75 KWT (415 V) 75 KWT (440 V) 90 KWT (500 V) 90 KWT (690 V) 90 KWT
Rated Operational Power AC-3	(415 V) 75 KWT (440 V) 90 KWT (500 V) 90 KWT (690 V) 90 KWT
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x Ie AC-3

## Specifications

Horsepower Rating UL/CSA	(200 V AC) Three Phase 40 hp (208 V AC) Three Phase 40 hp (220 ... 240 V AC) Three Phase 50 hp (440 ... 480 V AC) Three Phase 100 hp (550 ... 600 V AC) Three Phase 125 hp
Conventional Free-air Thermal Current	acc. to IEC 60947-4-1, Open Contactors $q = 40 \text{ }^{\circ}\text{C}$ 225 A
Rated Frequency	Main Circuit 50Hz Main Circuit 60 Hz
Rated Short-time Withstand Current	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A
Rated Operational Current AC-3	(1000 V) 55 °C 60 A (220 / 230 / 240 V) 55 °C 146 A (380 / 400 V) 55 °C 146 A (415 V) 55 °C 146 A (440 V) 55 °C 146 A (500 V) 55 °C 93 A (690 V) 55 °C 93 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 AC-2 / AC-4 150 cycles per hour AC-3 300 cycles per hour
Short-Circuit Protective Devices	gG Type Fuses 315 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 $I_e > 100 \text{ A}$ ) at 440 V 3000 A $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100 \text{ A}$ ) at 690 V 1500 A
Mechanical Durability	5 million
Coil Operating Limits	(acc. to IEC 60947-4-1) $0.85 \times U_c$ Min. ... $1.1 \times U_c$ Max. (at $\theta \leq 70 \text{ }^{\circ}\text{C}$ )
Maximum Mechanical Switching Frequency	300 cycles per hour
Operate Time	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
Secondary Rated Impulse Withstand Voltage	Main Circuit 8 kV
Connecting Capacity Main Circuit	Flexible $2 \times 10 \dots 70 \text{ m}^2$ Rigid Cu-Cable $2 \times 10 \dots 95 \text{ m}^2$
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V - A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V - A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V - A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V - A Pull-in at Max. Rated Control Circuit Voltage DC 210 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 $2 \times 0.75 \dots 2.5 \text{ m}^2$ Solid $1 \times 1 \dots 4 \text{ m}^2$ Stranded $2 \times 1 \dots 4 \text{ m}^2$
Screw Terminal Type	Double Clamp

## 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	1.55kg
Product Net Depth / Length	126 mm

## Dimensions

Product Net Width	90 mm
Product Net Height	150 mm

## Package Information

Package Level 1 Width	207 mm
Package Level 1 Height	150 mm
Package Level 1 Depth / Length	216 mm
Package Level 1 EAN	7320500482056
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	1.75 kg

## Ordering

Minimum Order Quantity	1
Customs Tariff Number	85364900