

# AF400-30-11-70



AF400-30-11 100-250V 50/60Hz / 100-250V DC Contactor



## General Information

Extended Product Type	AF400-30-11-70
Product ID	1SFL577001R7011
EAN	7320500217665
Catalog Description	AF400-30-11 100-250V 50/60Hz / 100-250V DC Contactor
Long Description	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 100-250 V, AC/DC

## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	1SFC380023-en
Dimension Diagram	53540919-59

## Dimensions

Product Net Width	186 mm
Product Net Depth / Length	216 mm
Product Net Height	278 mm
Product Net Weight	12 kg

## Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	1
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 50/60 Hz
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-4-1, Open Contactors $q = 40$ °C 600 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 55 °C 500 A (690 V) 40 °C 600 A

	(1000 V) 40 °C 600 A (1000 V) 55 °C 500 A (690 V) 70 °C 400 A (1000 V) 70 °C 400 A
Rated Operational Current AC-3 ( $I_e$ )	(1000 V) 55 °C 155 A (690 V) 55 °C 350 A (415 V) 55 °C 400 A (220 / 230 / 240 V) 55 °C 400 A (440 V) 55 °C 400 A (380 / 400 V) 55 °C 400 A (500 V) 55 °C 400 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 110 kW (380 / 400 V) 200 kW (415 V) 220 kW (440 V) 220 kW (500 V) 250 kW (690 V) 315 kW (1000 V) 220 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x $I_e$ AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x $I_e$ AC-3
Short-Circuit Protective Devices	gG Type Fuses 630 A
Rated Short-time Withstand Current ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 3100 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 4400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 840 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 4600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 4000 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 3500 A
Maximum Electrical Switching Frequency	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 60 cycles per hour
Rated Operational Current DC-1 ( $I_e$ )	(600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A
Rated Operational Current DC-3 ( $I_e$ )	(600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A
Rated Operational Current DC-5 ( $I_e$ )	(600 V) 3 Poles in Series, 40 °C 600 A (110 V) 1-Pole, 40 °C 600 A (110 V) 2 Poles in Series, 40 °C 600 A (220 V) 3 Poles in Series, 40 °C 600 A
Rated Insulation Voltage ( $U_i$ )	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	Main Circuit 8 kV
Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x $U_c$ Min. ... 1.1 x $U_c$ Max. (at $\theta \leq 70$ °C) °C
Rated Control Circuit Voltage ( $U_c$ )	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
Coil Consumption	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 955 V·A Holding at Max. Rated Control Circuit Voltage DC 5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 895 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 955 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A
Operate Time	Between Coil Energization and NO Contact Closing 50 ... 120 ms Between Coil De-energization and NO Contact Opening 48 ... 58 ms Between Coil De-energization and NC Contact Closing 45 ... 55 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms
Connecting Capacity Main Circuit	Rigid Al-Cable 2x240 mm <sup>2</sup> Bar 47 mm