

# AF750-30-11-70



AF750-30-11 100-250V 50/60Hz / 100-250V DC Contactor

## General Information

Extended Product Type	AF750-30-11-70
Product ID	1SFL637001R7011
EAN	7320500217702
Catalog Description	AF750-30-11 100-250V 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	53540919-60

## Dimensions

Product Net Width	210 mm
Product Net Depth / Length	242 mm
Product Net Height	283 mm
Product Net Weight	15 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 1050 A
Rated Operational Current AC-1 ( $I_e$ )	(690 V) 55 °C 875 A (690 V) 40 °C 1050 A

	(1000 V) 40 °C 1000 A (1000 V) 55 °C 875 A (690 V) 70 °C 720 A (1000 V) 70 °C 720 A
Rated Operational Current AC-3 ( $I_e$ )	(1000 V) 55 °C 300 A (690 V) 55 °C 650 A (415 V) 55 °C 750 A (220 / 230 / 240 V) 55 °C 750 A (440 V) 55 °C 750 A (380 / 400 V) 55 °C 750 A (500 V) 55 °C 750 A
Rated Operational Power AC-3 ( $P_e$ )	(220 / 230 / 240 V) 220 kW (380 / 400 V) 400 kW (415 V) 425 kW (440 V) 450 kW (500 V) 520 kW (690 V) 600 kW (1000 V) 400 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 1000 A
Rated Short-time Withstand Current ( $I_{cw}$ )	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 6400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 4500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 7000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 3500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 7500 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 7000 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 ( $I_e$ )	(850 V) 3 Poles in Series, 40 °C 1050 A (600 V) 3 Poles in Series, 40 °C 1050 A (110 V) 1-Pole, 40 °C 1050 A (110 V) 2 Poles in Series, 40 °C 1050 A (220 V) 3 Poles in Series, 40 °C 1050 A
Rated Operational Current DC-3 ( $I_e$ )	(850 V) 3 Poles in Series, 40 °C 1050 A (600 V) 3 Poles in Series, 40 °C 1050 A (110 V) 1-Pole, 40 °C 1050 A (110 V) 2 Poles in Series, 40 °C 1050 A (220 V) 3 Poles in Series, 40 °C 1050 A
Rated Operational Current DC-5 ( $I_e$ )	(850 V) 3 Poles in Series, 40 °C 1050 A (600 V) 3 Poles in Series, 40 °C 1050 A (110 V) 1-Pole, 40 °C 1050 A (110 V) 2 Poles in Series, 40 °C 1050 A (220 V) 3 Poles in Series, 40 °C 1050 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	3 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 880 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 880 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 880 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 53 ... 73 ms Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms

Connecting Capacity Main Circuit	Rigid Al-Cable 3x185 mm <sup>2</sup> Bar 52 mm Rigid Cu-Cable 300 mm <sup>2</sup>
Connecting Capacity Auxiliary Circuit	Solid 2 x 1 ... 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup> Stranded 1 x 1 ... 4 mm <sup>2</sup> Flexible 1x0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup>
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

## Environmental

Ambient Air Temperature	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 Close to Contactor for Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: C1 5 g Shock Direction: B2 5 g Shock Direction: B1 5 g
RoHS Status	Following EU Directive 2011/65/EU

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 900 A
Horsepower Rating UL/CSA	(208 V AC) Three Phase 250 Hp (440 ... 480 V AC) Three Phase 600 Hp (550 ... 600 V AC) Three Phase 700 Hp (220 ... 240 V AC) Three Phase 300 Hp (200 V AC) Three Phase 250 Hp

## Certificates and Declarations (Document Number)

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SE-82863
CCC Certificate	CQC_2007010304256684
CCS Certificate	GB14T00030
CSA Certificate	306712-1
cUL Certificate	UL_20111101-E36588
Declaration of Conformity - CE	2CMT2015-005436
DNV Certificate	DNV_E-10966
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101005D0201
GL Certificate	GL_42988-02HH
Instructions and Manuals	1SFC380023-en
LOVAG Certificate	SE-0151293
LR Certificate	16-20064
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002

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RMRS Certificate	9AKK107045A6978
RoHS Information	2CMT2016-007373
UL Listing Card	UL_E36588

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## Container Information

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Package Level 1 Units	box 1 piece
Package Level 1 Width	290 mm
Package Level 1 Depth / Length	270 mm
Package Level 1 Height	350 mm
Package Level 1 Gross Weight	15 kg
Package Level 1 EAN	7320500217702

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## Classifications

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Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
UNSPSC	39121529
E-Number (Norway)	4115300
E-Number (Sweden)	3228366

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## Categories

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Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

