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# AF460-30-11 100-250V 50/60Hz / 100-250V DC



## General Information

<b>Extended Product Type:</b>	AF460-30-11 100-250V 50/60Hz / 100-250V DC
<b>Product ID:</b>	1SFL597001R7011
<b>EAN:</b>	7320500217658
<b>Catalog Description:</b>	AF460-30-11 100-250V 50/60Hz / 100-250V DC Contactor
<b>Long Description:</b>	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC

## Categories

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

## Ordering

<b>EAN:</b>	7320500217658
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85364900

## Dimensions

<b>Product Net Width:</b>	186.0 mm
<b>Product Net Depth:</b>	216.0 mm
<b>Product Net Height:</b>	278.0 mm
<b>Product Net Weight:</b>	12.000 kg

## Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	260 mm
<b>Package Level 1 Length:</b>	250 mm
<b>Package Level 1 Height:</b>	350 mm
<b>Package Level 1 Gross Weight:</b>	12 kg
<b>Package Level 1 EAN:</b>	7320500217658

## Technical

<b>Number of Main Contacts NO:</b>	3
<b>Number of Main Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Rated Operational Voltage:</b>	Main Circuit 1000 V
<b>Rated Frequency (f):</b>	Main Circuit 50/60 Hz
<b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b>	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C}$ 700 A
<b>Rated Operational Current AC-1 (<math>I_e</math>):</b>	(690 V) 55 °C 600 A (690 V) 40 °C 700 A (1000 V) 40 °C 700 A (1000 V) 55 °C 600 A (690 V) 70 °C 480 A (1000 V) 70 °C 480 A
<b>Rated Operational Current AC-3 (<math>I_e</math>):</b>	(1000 V) 55 °C 200 A (690 V) 55 °C 400 A (415 V) 55 °C 460 A (220 / 230 / 240 V) 55 °C 460 A (440 V) 55 °C 460 A (380 / 400 V) 55 °C 460 A (500 V) 55 °C 460 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(500 V) 315 kW (220 / 230 / 240 V) 132 kW (690 V) 355 kW (380 / 400 V) 250 kW (440 V) 250 kW (415 V) 250 kW
<b>Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:</b>	8 x $I_e$ AC-3
<b>Rated Making Capacity AC-3 acc. to IEC 60947-4-1:</b>	10 x $I_e$ AC-3
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 800 A
<b>Rated Short-time Withstand Current</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 840 A

<b>(I<sub>cw</sub>):</b>	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 1 s 4600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 2500 A
<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 5000 A cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 4500 A
<b>Maximum Electrical Switching Frequency:</b>	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 60 cycles per hour
<b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>	(600 V) 3 Poles in Series, 40 °C 700 A (110 V) 1-Pole, 40 °C 700 A (110 V) 2 Poles in Series, 40 °C 700 A (220 V) 3 Poles in Series, 40 °C 700 A
<b>Rated Operational Current DC-3 (I<sub>e</sub>):</b>	(600 V) 3 Poles in Series, 40 °C 700 A (110 V) 1-Pole, 40 °C 700 A (110 V) 2 Poles in Series, 40 °C 700 A (220 V) 3 Poles in Series, 40 °C 700 A
<b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>	(600 V) 3 Poles in Series, 40 °C 700 A (110 V) 1-Pole, 40 °C 700 A (110 V) 2 Poles in Series, 40 °C 700 A (220 V) 3 Poles in Series, 40 °C 700 A
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 8 kV
<b>Mechanical Durability:</b>	5 million
<b>Maximum Mechanical Switching Frequency:</b>	300 cycles per hour
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x U <sub>c</sub> Min. ... 1.1 x U <sub>c</sub> Max. (at θ ≤ 70 °C) °C
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
<b>Coil Consumption:</b>	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
<b>Operate Time:</b>	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
<b>Connecting Capacity-Main Circuit:</b>	Rigid Al-Cable 2x240 mm <sup>2</sup> Bar 47 mm Rigid Cu-Cable 240 mm <sup>2</sup>
<b>Connecting Capacity-Auxiliary Circuit:</b>	Solid 2x1...4 mm <sup>2</sup> Flexible with Insulated Ferrule 2x0.75...2.5 mm <sup>2</sup> Stranded 2x1...4 mm <sup>2</sup> Flexible 2x0.75...2.5 mm <sup>2</sup> Flexible with Ferrule 2x0.75...2.5 mm <sup>2</sup>
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
<b>Terminal Type:</b>	Main Circuit: Bars

## Environmental

<b>Ambient Air Temperature:</b>	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -25...+50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U <sub>c</sub> ) -40...+70 °C Close to Contactor for Storage -40...+70 °C
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: B1 5 g
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
<b>General Use Rating UL/CSA:</b>	(600 V AC) 650 A
<b>Horsepower Rating UL/CSA:</b>	(208 V AC) Three Phase 150 Hp (440 ... 480 V AC) Three Phase 400 Hp (550 ... 600 V AC) Three Phase 500 Hp

(220 ... 240 V AC) Three Phase 200 Hp  
(200 V AC) Three Phase 150 Hp

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### Certificates and Declarations (Document Number)

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<b>BV Certificate:</b>	11727/C0 BV
<b>CB Certificate:</b>	SE-69485
<b>CCC Certificate:</b>	CQC_2007010304256683
<b>CSA Certificate:</b>	306711
<b>Declaration of Conformity - CE:</b>	1SFA1-65
<b>DNV Certificate:</b>	DNV_E-10966
<b>GL Certificate:</b>	GL_42988-02HH
<b>LOVAG Certificate:</b>	FI102
<b>LR Certificate:</b>	LR_13_20009
<b>RINA Certificate:</b>	ELE060313XG/002
<b>RoHS Information:</b>	1SFC101055D0202

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### Classifications

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<b>E-nummer:</b>	3228345
<b>ETIM 5:</b>	EC000066 - Magnet contactor, AC-switching
<b>UNSPSC:</b>	39121529

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<b>Product</b>	<b>Code</b>	<b>Reference</b>	<b>Product link</b>
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