

**PRODUCT-DETAILS** 

## AF460-30-11-70 AF460-30-11 100-250V 50/60Hz / 100-250V DC Contactor



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General	Information

EAN	7320500217658	
Product ID	1SFL597001R7011	
Extended Product Type	AF460-30-11-70	

Catalog Description

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

auxiliary contacts and Main Circuit Bars, controlling motors up to 250 kW / 400 V AC (AC-3) or 400 hp / 480 V UL and switching power circuits up to 700 A (AC-1) or 650 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of

The AF460-30-11-70 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted

Long Description

## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

## Popular Downloads

Data Sheet, Technical 1SBC100192C0206

Information	
Instructions and Manuals	1SFC380023-en
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	53540919-59
Dimensions	
Product Net Width	186 mm
Product Net Depth / Length	216 mm
Product Net Height	278 mm
Product Net Weight	10.6 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 <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 700 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(1000 V) 40 °C 700 A (1000 V) 55 °C 600 A (1000 V) 60 °C 600 A (1000 V) 70 °C 480 A (690 V) 40 °C 700 A (690 V) 55 °C 600 A (690 V) 70 °C 480 A
Rated Operational Current AC-3 (I <sub>e</sub> )	(415 V) 55 °C 460 A (440 V) 55 °C 460 A (500 V) 55 °C 460 A (690 V) 55 °C 400 A (1000 V) 55 °C 200 A (380 / 400 V) 55 °C 460 A (220 / 230 / 240 V) 55 °C 460 A

Rated Operational Power

 $AC-3 (P_e)$ 

(415 V) 250 kW

Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 60 cycles per hour
	(AC-3) 300 cycles per hour
Rated Operational Current DC-1 (I <sub>e</sub> )	(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 (600 V) 3 Poles in Series, 40 °C 700 A
Rated Operational Current DC-3 (I <sub>e</sub> )	(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 (600 V) 3 Poles in Series, 40 °C 700 A
Rated Operational Current DC-5 ( $I_e$ )	(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 (600 V) 3 Poles in Series, 40 °C 700 A
Rated Insulation Voltage $(U_i)$	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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 Uc Min 1.1 x Uc Max. (at θ ≤ 70 °C)
Rated Control Circuit Voltage (U <sub>c</sub> )	50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A Holding at Max. Rated Control Circuit Voltage DC 5 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 955 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 955 V·A Pull-in at Max. Rated Control Circuit Voltage DC 895 V·A
Operate Time	Between Coil De-energization and NC Contact Closing 45 55 ms Between Coil De-energization and NO Contact Opening 48 58 ms Between Coil Energization and NC Contact Opening 45 115 ms Between Coil Energization and NO Contact Closing 50 120 ms
Connecting Capacity Main Circuit	Bar 47 mm² Rigid Al-Cable 2x240 mm² Rigid Cu-Cable 240 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 2 x 1 4 mm²
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
Technical UL/CSA	
NEMA Size	6
Horsepower Rating NEMA	(200 V AC) Three Phase 150 Hp (230 V AC) Three Phase 200 Hp (460 V AC) Three Phase 400 Hp (575 V AC) Three Phase 400 Hp
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(600 V AC) 650 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 150 hp (208 V AC) Three Phase 150 hp (220 240 V AC) Three Phase 200 hp (440 480 V AC) Three Phase 400 hp (550 600 V AC) Three Phase 500 hp

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	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Shock Direction: A 5 g Shock Direction: B1 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: C2 5 g
Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	<ol><li>Small Equipment (No External Dimension More Than 50 cm)</li></ol>
Circular Value	
ABB EcoSolutions Circular Design Principles	
ABB EcoSolutions Circular Design Principles Recyclability Rate	Yes  Design for Closing Resource Loops - Standard EN45555 - 63.1 %  1SFC100112M0001
Circular Value  ABB EcoSolutions Circular Design Principles Recyclability Rate End of Life Instructions Group Waste to Landfill Target	Design for Closing Resource Loops - Standard EN45555 - 63.1 %  1SFC100112M0001  Non-hazardous waste is sent to a landfill, where there is no alternative option
ABB EcoSolutions Circular Design Principles Recyclability Rate End of Life Instructions Group Waste to Landfill	Design for Closing Resource Loops - Standard EN45555 - 63.1 %  1SFC100112M0001  Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility  Product Efficiency - Product considered more energy-efficient compared to
ABB EcoSolutions  Circular Design Principles Recyclability Rate  End of Life Instructions  Group Waste to Landfill Target  Improved Resource Efficiency for Customers  Sustainable Material	Design for Closing Resource Loops - Standard EN45555 - 63.1 %  1SFC100112M0001  Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility  Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
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ABB EcoSolutions Circular Design Principles Recyclability Rate End of Life Instructions Group Waste to Landfill Target Improved Resource Efficiency for Customers Sustainable Material Content  Eco Transparency Environmental Product Declaration - EPD  Certificates and Declarations ABS Certificate BV Certificate	Design for Closing Resource Loops - Standard EN45555 - 63.1 %  1SFC100112M0001  Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility  Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line  Recycled Metal - 37 %  1SFC100105D0201  15-LD1408622-PDA  BV_13409-C0BV  SE-82316
ABB EcoSolutions Circular Design Principles Recyclability Rate End of Life Instructions Group Waste to Landfill Target Improved Resource Efficiency for Customers Sustainable Material Content  Eco Transparency Environmental Product Declaration - EPD  Certificates and Declarations ABS Certificate BV Certificate CB Certificate	Design for Closing Resource Loops - Standard EN45555 - 63.1 %  1SFC100112M0001  Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility  Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line  Recycled Metal - 37 %  1SFC100105D0201

CSA Certificate

**Declaration of Conformity** 

306711

2020980304001300

- CCC	2020980304001081
Declaration of Conformity - CE	2CMT2015-005436
Declaration of Conformity - UKCA	2CMT2020-006118
DNV Certificate	DNV_E-10966
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
GL Certificate	GL_42988-02HH
LOVAG Certificate	FI102
LR Certificate	16-20064
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
UL Certificate	20121207-E36588
UL Listing Card	UL_E36588

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	280 mm
Package Level 1 Depth / Length	375 mm
Package Level 1 Height	310 mm
Package Level 1 Gross Weight	12 kg
Package Level 1 EAN	7320500217658

Classifications	
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
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Finland)	3709333
E-Number (Norway)	4115292
E-Number (Sweden)	3228346

## Categories

