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PRODUCT-DETAILS

AF116-30-11-32 AF116-30-11-32 Contactor



General	Information	
Extended Dreduct Tune		

AF116-30-11-32 Extended Product Type 1SFL427001R3211 Product ID EAN 7320500560303

Catalog Description

The AF116-30-11-32 is a 3 pole - 690 V IEC or 600 V UL contactor with double clamp, controlling motors up to 55 kW / 400 V AC (AC-3) or 75 hp / 480 V UL and switching power controlling motors up to 55 kW / 400 V AC (AC-3) or 75 hp / 480 V UL and switching power circuits up to 160 A (AC-1) or 160 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (48-130 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 accessories. Long Description

Ordering

Minimum Order Quantity 1 piece 8536490099 Customs Tariff Number

Popular Downloads

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Instructions and Manuals	1SFC100003M0201
CAD Dimensional	2CDC001079B0201
Drawing	

Dimensions	
Product Net Width	90 mm
Product Net Depth / Length	138.5 mm
Product Net Height	150 mm
Product Net Weight	1.55 kg

Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	C
Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	1
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 160 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 160 A (690 V) 60 °C 145 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 55 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Current AC-3e (I _e)	(415 V) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 55 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Power AC-3 (P _e)	(400 V) 55 kW (415 V) 55 kW (440 V) 75 kW (500 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Operational Power AC-3e (P _e)	(415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (590 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Breaking Capacity AC-3	8 x le AC-3
Rated Breaking Capacity AC-3e	8.5 x le AC-3e
Rated Making Capacity AC-3	10 x le AC-3
Rated Making Capacity AC-3e	12 x le AC-3e
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A
Maximum Breaking	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 2000 A

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Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1000 A	
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour	
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 1000 V	
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 8 kV	
Mechanical Durability	5 million	
Maximum Mechanical Switching Frequency	300 cycles per hour	
Rated Control Circuit Voltage (U _c)	50 Hz 48 130 V 60 Hz 48 130 V DC Operation 48 130 V	
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 2 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 2 W Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage DC 150 W	
Operate Time	Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 ms	
Connecting Capacity Main Circuit	Flexible 2 x 10 70 mm² Rigid Cu-Cable 1 x 10 95 mm²	
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1x 0.75 2.5 mm² Flexible 2x 0.75 2.5 mm² Flexible 2x 0.75 2.5 mm² Solid 1x 1 4 mm² Stranded 1x 1 4 mm² Stranded 2x 1 4 mm² Stranded 2x 1 4 mm²	
Wire Stripping Length	Auxiliary Circuit 9 mm Control Circuit 9 mm	
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	Double Clamp	
Technical UL/CSA		
Maximum Operating Voltage UL/CSA	Main Circuit 600 V	
General Use Rating UL/CSA	(600 V AC) 160 A	
Horsepower Rating UL/CSA	(200 208 V AC) Three Phase 30 hp (220 240 V AC) Three Phase 40 hp (440 480 V AC) Three Phase 75 hp (550 600 V AC) Three Phase 100 hp	
Tightening Torque UL/CSA	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 71 in·lb	
<u>Environmental</u>		
	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 55 °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	
Ambient Air Temperature		

Material Compliance

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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	5. Small Equipment (No External Dimension More Than 50 cm)
Circular Value	
ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 87.8 %
End of Life Instructions	1SFC100112M0001
Group Waste to Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility
Improved Resource	Product Efficiency - Product requires less energy to operate compared to
Efficiency for Customers	similar product on market or older products from the same line
Sustainable Material Content	Recycled Metal - 37 %
Eco Transparency	
Environmental Product Declaration - EPD	1SFC100092D0201
Certificates and Declarations	20MT2045 005420
Declaration of Conformity - CE	2CMT2015-005439
Declaration of Conformity - UKCA	2CMT2020-006118
UL Certificate	20120925-E36588
Container Information	
	hov 1 piggs
Package Level 1 Units Package Level 1 Width	box 1 piece
Package Level 1 Depth / Length	207 mm 216 mm
Package Level 1 Height	150 mm
Package Level 1 Gross Weight	1.75 kg
Package Level 1 EAN	7320500560303
Classifications	
Object Classification Code	Q
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

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Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ 116$

