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PRODUCT-DETAILS

AF305-30-11-32 Contactor



General Information	
Extended Product Type	AF305-30-11-32
Product ID	1SFL587002R3211
EAN	7320500561874
Catalog Description	AF305-30-11-32 Contactor
Long Description	The AF305-30-11-32 is a 3 pole - 1000 V IEC or 600 V UL contactor with Main Circuit Bars, controlling motors up to 160 kW / 400 V AC (AC-3) or 250 hp / 480 V UL and switching power circuits up to 500 A (AC-1) or 400 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.

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Minimum Order Quantity 1 piece
Customs Tariff Number 8536490099

Popular Downloads

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1SFC100008M0201

Instructions and Manuals	1SFC100008M020
CAD Dimensional Drawing	2CDC001079B020
Dimensions	
Product Net Width	140 m
Product Net Depth / Length	191 m
Product Net Height	225 m
Product Net Weight	3.91
Technical	
Number of Main Contacts	
Number of Main Contacts	
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	
Rated Operational Voltage	Main Circuit 1000
Rated Frequency (f)	Main Circuit 50 / 60 F
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 500
Rated Operational Current	(1000 V) 40 °C 375
AC-1 (I _e)	(1000 V) 60 °C 325 (1000 V) 70 °C 260
	(690 V) 40 °C 500
	(690 V) 60 °C 400 (690 V) 70 °C 325
Rated Operational Current	(415 V) 60 °C 305
AC-3 (I _e)	(440 V) 60 °C 305 (500 V) 60 °C 290
	(690 V) 60 °C 290
	(1000 V) 60 °C 131 (380 / 400 V) 60 °C 305
	(220 / 230 / 240 V) 60 °C 305
Rated Operational Power	(415 V) 160 k
AC-3 (P _e)	(440 V) 160 k (500 V) 200 k
	(690 V) 250 k
	(1000 V) 185 k
	(380 / 400 V) 160 k (220 / 230 / 240 V) 90 k
Rated Breaking Capacity	8 x le AC
AC-3 Rated Making Capacity AC-3	10 x le AC
Rated Short-time	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2440
Withstand Current Low	at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500
√oltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 996 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3050 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1409
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 4600 cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 3800
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per ho (AC-2 / AC-4) 150 cycles per ho (AC-3) 300 cycles per ho
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 acc. to UL/CSA 1000
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 8 I
Mechanical Durability	5 millio
Maximum Mechanical	300 cycles per ho

Instructions and Manuals

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Switching Frequency	
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 17 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 3 W Holding at Max. Rated Control Circuit Voltage 60 Hz 17 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 3 W Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 340 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 340 V·A Pull-in at Max. Rated Control Circuit Voltage DC 360 W
Operate Time	Between Coil De-energization and NO Contact Opening 45 80 ms Between Coil Energization and NO Contact Closing 30 60 ms
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 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1x 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 Solid 2x 1 4 mm² Stranded 1x 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	Main Circuit: Bars
Technical UL/CSA	
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(600 V AC) 400 A
Horsepower Rating UL/CSA	(200 208 V AC) Three Phase 100 hp (220 240 V AC) Three Phase 125 hp (440 480 V AC) Three Phase 250 hp (550 600 V AC) Three Phase 300 hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 372 in·lb
Environmental	
Ambient Air Temperature	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
Maximum Operating Altitude Permissible	Without Derating 3000 m
Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status Toxic Substances Control Act - TSCA	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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Circular Value	
ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 76.3 %
End of Life Instructions	1SFC100104D0201
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 Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Sustainable Material Content	Recycled Metal - 33 %
Eco Transparency	
Environmental Product Declaration - EPD	1SFC100104D0201
Certificates and Declarations	
Declaration of Conformity - CE	2CMT2015-005439
Declaration of Conformity - UKCA	2CMT2020-006118
UL Certificate	20121217-E36588
Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	263 mm
Package Level 1 Depth / Length	203 mm
Package Level 1 Height	289 mm
Package Level 1 Gross Weight	4.6 kg
Package Level 1 EAN	7320500561874
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

