

PRODUCT-DETAILS

AF305-30-11-14 AF305-30-11-14 Contactor



General Information	
Extended Product Type	AF305-30-11-14
Product ID	1SFL587002R1411
EAN	7320500481806
Catalog Description	AF305-30-11-14 Contactor

Long Description

The AF305-30-11-14 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and 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 (250-500 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

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical 1SBC100192C0206

Information	
Instructions and Manuals	1SFC100008M0201
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SFB535001G1060
Dimensions	
Product Net Width	140 mm
Product Net Depth / Length	180 mm
Product Net Height	225 mm
Product Net Weight	3.9 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 Θ = 40 °C 500 A
Rated Operational Current AC-1 (I _e)	(1000 V) 40 °C 375 A (1000 V) 55 °C 325 A (1000 V) 60 °C 325 A (1000 V) 70 °C 260 A (690 V) 40 °C 500 A (690 V) 55 °C 400 A (690 V) 70 °C 325 A
Rated Operational Current AC-3 (I _e)	(415 V) 55 °C 305 A (440 V) 55 °C 305 A (500 V) 55 °C 290 A (690 V) 55 °C 290 A (1000 V) 55 °C 131 A (380 / 400 V) 55 °C 305 A (220 / 230 / 240 V) 55 °C 305 A
Rated Operational Power AC-3 (P _e)	(415 V) 160 kW (440 V) 160 kW (500 V) 200 kW (690 V) 250 kW (1000 V) 185 kW (380 / 400 V) 160 kW (220 / 230 / 240 V) 90 kW
Rated Breaking Capacity AC-3	8 x le AC-3
Rated Making Capacity AC-3	10 x le AC-3
Short-Circuit Protective Devices	gG Type Fuses 500 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2440 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 996 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3050 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1409 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 4600 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 3800 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 Operational Current DC-1 (I _e)	(110 V) 1-Pole, 40 °C 500 A (220 V) 2 Poles in Series, 40 °C 500 A (220 V) 3 Poles in Series, 40 °C 500 A
Rated Operational Current DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 A
Rated Operational Current DC-5 (I_e)	(110 V) 2 Poles in Series, 40 °C 400 A (220 V) 3 Poles in Series, 40 °C 400 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 _{imp})	Main Circuit 8 kV
Mechanical Durability	5 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 $\theta \leq 70~^{\circ}\text{C})$
Rated Control Circuit Voltage (U _c)	50 Hz 250 500 V 60 Hz 250 500 V DC Operation 250 500 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 20.4 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 20.4 V·A Holding at Max. Rated Control Circuit Voltage DC 4.7 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 550 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 550 V·A Pull-in at Max. Rated Control Circuit Voltage DC 650 W
Operate Time	Between Coil De-energization and NO Contact Opening 37 47 ms Between Coil Energization and NO Contact Closing 25 55 ms
Connecting Capacity Main Circuit	Flexible 1 x 16 240 mm² Rigid Al-Cable 1 x 185 240 mm² Rigid Cu-Cable 2 x 70 185 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 1 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	
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(600 V AC) 400 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 100 hp (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
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
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Maximum Operating

Altitude Permissible

Without Derating 3000 m

9AKK108467A5658
2CMT2021-00620
2CMT2021-00627
Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
2CMT2023-006529
Business To Business
5. Small Equipment (No External Dimension More Than 50 cm
Ye
Design for Closing Resource Loops - Standard EN45555 - 76.3 %
1SFC100104D020
Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facilit
Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recycled Metal - 33 %
1SFC100104D020

Certificates and Declarations	
ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SE-89316
CCS Certificate	GB14T00030
CQC Certificate	CQC2014010304676670 CQC2014010304673866
Declaration of Conformity - CCC	2020980304001305 2020980304001068
Declaration of Conformity - CE	2CMT2015-005439
Declaration of Conformity - UKCA	2CMT2020-006118
DNV Certificate	DNV_E-14043
EAC Certificate	9AKK107046A8618
GL Certificate	GL_95073-14HH
LR Certificate	LR_14_70011(E1)
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
UL Certificate	20121217-E36588

UL Listing Card UL_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	7320500481806

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)	3706489
E-Number (Norway)	4117654
E-Number (Sweden)	3210164

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ 305$

