

PRODUCT-DETAILS

AFS305-30-12-11 AFS305-30-12-11



General Information	
Extended Product Type	AFS305-30-12-11
Product ID	1SFL587082R1112
EAN	7320500541449
Catalog Description	AFS305-30-12-11
Long Description	The AFS305-30-12-11 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted 1 left (1 N.O + 1 N.C.) and fixed 1 right (1 N.C.) side mounted auxiliary contact blocks with Main Circuit Bars connections, 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. AFS contactors can be easily integrated in machine manufacturer's systems complying with main standards EN ISO 13849 and EN 62061 - guaranteeing the safe use of your machinery and equipment. An easily identifiable yellow low energy auxiliary contact block ensures the status feedback circuits required in machine safety applications. Thanks to the AF technology, the contactor has a wide control voltage range (24-60 V 50/60 Hz and 20-60 V 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

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Popular Downloads	

1SBC100208C02__

Data Sheet, Technical Information

Dimensions	
Product Net Width	140 mm
Product Net Depth / Length	180 mm
Product Net Height	225 mm
Product Net Weight	4 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	2
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 q = 40 °C 500 A
Rated Operational Current AC-1 (I _e)	(1000 V) 40 °C 375 A (1000 V) 60 °C 325 A (1000 V) 70 °C 260 A (690 V) 40 °C 500 (690 V) 60 °C 400 A (690 V) 70 °C 325

Rated Operational Current (415 V) 60 °C 305 A (440 V) 60 °C 305 A AC-3 (I_e) (500 V) 60 °C 290 A (690 V) 60 °C 290 A (1000 V) 60 °C 131 A (380 / 400 V) 60 °C 305 A (220 / 230 / 240 V) 60 °C 305 A (415 V) 160 kW (440 V) 160 kW Rated Operational Power AC-3 (P_e) (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** 8 x le AC-3 AC-3 acc. to IEC 60947-4-Rated Making Capacity AC-3 acc. to IEC 60947-4-10 x le AC-3

1 Short-Circuit Protective gG Type Fuses 500 A Devices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2440 A Withstand Current Low at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A Voltage (I_{cw}) 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 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 Breaking Capacity (AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour Maximum Electrical Switching Frequency (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-1 (I_e)

Rated Operational Current

DC-3 (I _e)	(220 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) 1-Pole, 40 °C 400 A (220 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 $\theta \le 70$ °C)
Rated Control Circuit Voltage (U _c)	50 Hz 24 60 V 60 Hz 24 60 V DC Operation 20 60 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 8.5 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 8.5 V·A Holding at Max. Rated Control Circuit Voltage DC 3 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 475 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 475 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 475 V·A
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 2 x 70 185 mm² Rigid Al-Cable 1 x 185 240 mm² Rigid Cu-Cable 1 x 6 300 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 2.5 mm ² Flexible 2x0.75 2.5 mm ² Solid 2 x 1 4 mm ² Stranded 2 x 1 4 mm ²
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 600 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

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
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Certificates and Declarations (Document Number)	
CB Certificate	SE-89316
CQC Certificate	CQC2014010304676670
cUL Certificate	20121217-E36588
Declaration of Conformity - CCC	2020980304001305

AFS305-30-12-11

2CMT2018-005695
1SFC101360D1101
1SFC100008M0201
2CMT2018-005695
2CMT2019-005858
-

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	4.7 kg
Package Level 1 EAN	7320500541449

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
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contactors
E-Number (Finland)	3709023

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors

