

PRODUCT-DETAILS

AF205-40-11-13 AF205-40-11-13 Contactor



Concrai innonnation	Genera	l Informat	tion
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Extended Product Type	AF205-40-11-13
Product ID	1SFL527102R1311
EAN	7320500503706
Catalog Description	AF205-40-11-13 Contactor

Long Description

The AF205-40-11-13 is a 4 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and Main Circuit Bars, controlling motors up to 110 kW / 400 V AC (AC-3) / and switching power circuits up to 350 A (AC-1) or 250 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 accessories.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical 1SBC100192C0206 Information

Instructions and Manuals	N/A
Dimension Diagram	1SFB535001G1122

Froduct Net Depth 7 152.5 m Length 195.6 m 19	Dimensions	
Product Net Height	Product Net Width	140 mn
Product Net Weight 3.3 k Technical Number of Main Contacts NO Number of Auxiliary Contacts NO Rated Prequency (f) Rated Prequency (f) Rated Operational Voltage Rated Operational Free-air Thermal Current (f _{th}) Rated Operational Current (1000 V) 40 °C 275 (1000 V) 60 °C 255 (1000 V) 60 °C 256 (1000 V) 70 °C 206 (1000 V)	Product Net Depth / Length	152.5 mm
Technical Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Rated Operational Voltage Rated Frequency (f) Rate Operational Current (Ing) Rated Operational Current (Ing) Rated Operational Current (Ing) Rated Operational Current (Ing) (I	Product Net Height	195.6 mn
Number of Main Contacts NC Number of Auxillary Contacts NC Number of Auxillary Contacts NC Number of Auxillary Contacts NC Rated Operational Voltage Rated Frequency (f) Rated Frequency (f) Rated Operational Free-air Thermal Current (f _(n)) Rated Operational Current AC-1 (f _(a)) Rated Operational Current (1000 V) 40 °C 275 (1000 V) 50 °C 205 (860 V) 40 °C 35 (869 V) 50 °C 205 (800 V) 40 °C 35 (800 V	Product Net Weight	3.3 kg
NO Number of Main Contacts NC Number of Auxiliary Contacts NO Number of Auxiliary Contacts NO Rated Operational Voltage Rated Operational Free_air Thermal Current (I _{III}) Rated Operational Current AC-1 (I _{II}) Rated Operational Current AC-1 (I _{II}) Rated Operational Current AC-1 (I _{II}) Rated Operational Current AC-3 (I _{II}) Rated Operational Power AC-3 (I _{II}) Rated Making Capacity AC-3 acc. to IEC 60947-4-1 Rated Making Capacity AC-3 acc. to IEC 609	Technical	
NC Number of Auxiliary Contacts NC Number of Auxiliary Contacts NC Rated Operational Voltage Main Circuit 1000 Rated Frequency (f) Main Circuit 50 H. Conventional Free-air acc. to IEC 60947-4-1, Open Contacts or q = 40 °C 350 Thermal Current (I _{III}) Rated Operational Power (I15 Operatio	Number of Main Contacts NO	4
Contacts NO Number of Auxiliary Contacts NC Rated Operational Voltage Rated Prequency (f) Rated Frequency (f) Rated Frequency (f) Rated Frequency (f) Rated Operational Current Conventional Free-air Thermal Current (l _m) Rated Operational Current AC-1 (l _g) Rated Operational Current Rated Operational Power Rated Rated Rate Rate Rate Rate Rate Rate Rate Rate	Number of Main Contacts NC	
Contacts NC Rated Operational Voltage Main Circuit 1000 Rated Operational Voltage Main Circuit 50 P Conventional Free-air acc. to IEC 60947-4-1, Open Contactors q = 40 °C 350 Thermal Current (I _{th}) (1000 V) 40 °C 275 Rated Operational Current (1000 V) 60 °C 250 AC-1 (I _e) (1000 V) 70 °C 200 (890 V) 80 °C 200 (890 V) 80 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 90 °C 200 (890 V) 40 °C 200 (890 V) 90 °C 200 (890 V) 40 °C 200 (890 V) 90 °C 200 (890 V) 40 °C 200 (890 V) 90 °C 200 (890 V) 40 °C 200 (890 V) 90 °C 200 (890 V) 40 °C 200 (800 V) 90 °C 200 (890 V) 40 °C 200 (800 V) 90 °C 200 (890 V) 90 °C 200 (800 V) 90 °C 200 (890 V) 90 °C 200	Number of Auxiliary Contacts NO	1
Rated Frequency (f) Conventional Free-air Thermal Current (l _{th}) Rated Operational Current AC-1 (l _e) Rated Operational Current AC-1 (l _e) Rated Operational Current AC-1 (l _e) Rated Operational Current AC-3 (l _e) Rated Operational Power AC-3 (l _e) Rated Making Capacity AC-3 acc. to IEC 60947-4-1 Short-Circuit Protective Devices Rated Making Capacity AC-3 acc. to IEC 60947-4-1 Short-Circuit Protective Devices Rated Short-time AC-3 (l _e) Rated Short-time AC-3 (l _e) Rated Making Capacity AC-3 acc. to IEC 60947-4-1 Rated Making Capacity AC-3 acc. to IEC 6	Number of Auxiliary Contacts NC	1
Conventional Free-air Thermal Current (I _{th}) Rated Operational Current AC-1 (I _e) Rated Operational Current AC-2 (I _e) Rated Operational Current AC-3 (I _e) Rated Operational Current AC-3 (I _e) Rated Operational Current AC-3 (I _e) Rated Operational Power AC-3 (I _e) Rated Operational Power AC-3 (I _e) Rated Operational Power AC-3 (I _e) Rated Breaking Capacity AC-3 (I _e) Rated Making Capacity AC-3 (I _e) Rated Breaking Capacity AC-3 (I _e) Rated Breaking Capacity AC-3 (I _e) Rated Making Capacity AC-3 (I _e) Rated Making Capacity AC-3 (I _e) Rated Breaking Capacity AC-3 (I _e) Ra	Rated Operational Voltage	Main Circuit 1000 \
Thermal Current (Ith) Rated Operational Current AC-1 (Ie) Rated Operational Current AC-1 (Ie) Reted Operational Current AC-1 (Ie) Reted Operational Current Reted Operational Current AC-3 (Ie) Reted Operational Current AC-3 (Ie) Reted Operational Current AC-3 (Ie) Reted Operational Power AC-3 (Ie) Reted Operational Power Reted Operational Power Reted Operational Power Reted Operational Power Reted Breaking Capacity AC-3 (Ie) Reted Breaking Capacity Reted Making Capaci	Rated Frequency (f)	
AC-1 (I _e) (1000 V) 60 °C 250 (1000 V) 70 °C 200 (1000 V) 70 °C 240 (1000 V) 70 °C 240 (1000 V) 70 °C 240 (1000 V) 55 °C 205 (200 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (230 / 240 V) 55 °C 205 (240		acc. to IEC 60947-4-1, Open Contactors q = 40 °C 350 F
AC-3 (I _e) (440 V) 55 °C 205 (380 / 400 V) 55 °C 205 (380 / 400 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 55 °C 205 (220 / 230 / 240 V) 10 kt (220 / 230 / 240 V) 10 kt (220 / 230 / 240 V) 55 kt (220 / 230 / 240	Rated Operational Current AC-1 (I _e)	(1000 V) 40 °C 275 A (1000 V) 60 °C 250 A (1000 V) 70 °C 200 A (690 V) 40 °C 350 (690 V) 60 °C 300 A (690 V) 70 °C 240
AC-3 (P _e) (440 V) 132 kt (380 / 400 V) 110 kt (220 / 230 / 240 V) 55 kt Rated Breaking Capacity 8 x le AC- AC-3 acc. to IEC 60947-4- 1 Rated Making Capacity 10 x le AC- AC-3 acc. to IEC 60947-4- 1 Short-Circuit Protective Devices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 Maximum Breaking Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3500 Capacity Maximum Electrical (AC-1) 300 cycles per hou		(415 V) 55 °C 205 A (440 V) 55 °C 205 A (380 / 400 V) 55 °C 205 A (220 / 230 / 240 V) 55 °C 208
AC-3 acc. to IEC 60947-4- Rated Making Capacity AC-3 acc. to IEC 60947-4- 1 Short-Circuit Protective Devices Rated Short-time Withstand Current (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 3 s 947 Maximum Breaking Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3500 Capacity Maximum Electrical (AC-1) 300 cycles per hou	Rated Operational Power AC-3 (P _e)	(415 V) 110 kW (440 V) 132 kW (380 / 400 V) 110 kW (220 / 230 / 240 V) 55 kW
AC-3 acc. to IEC 60947-4- Short-Circuit Protective gG Type Fuses 400 Devices Rated Short-time at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 Withstand Current (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 Maximum Breaking Cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 3500 Capacity Maximum Electrical (AC-1) 300 cycles per hou	Rated Breaking Capacity AC-3 acc. to IEC 60947-4- 1	8 x le AC-3
Devices Rated Short-time At 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 Maximum Breaking Cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3500 Capacity Maximum Electrical (AC-1) 300 cycles per hou	Rated Making Capacity AC-3 acc. to IEC 60947-4- 1	10 x le AC-3
Withstand Current (I _{cw}) at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 Maximum Breaking Capacity Maximum Electrical (AC-1) 300 cycles per hou		gG Type Fuses 400 A
Capacity Maximum Electrical (AC-1) 300 cycles per hou		at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1640 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 670 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 2050 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 947 A
	_	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 3500 A
	Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hou

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 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 220 V·A Pull-in at Max. Rated Control Circuit Voltage DC 190 W
Operate Time	Between Coil De-energization and NO Contact Opening 45 80 ms Between Coil Energization and NO Contact Closing 25 60 ms
Connecting Capacity Main Circuit	Flexible 2 x 50 95 mm ² Rigid Al-Cable 1 x 95 185 mm ² Rigid Cu-Cable 1 x 6 150 mm ²
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	
Maximum Operating Voltage UL/CSA	Main Circuit 1000 V
General Use Rating UL/CSA	(600 V AC) 250 A
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 $^{\circ}$ C Close to Contactor for Storage -40 +70 $^{\circ}$ C
Maximum Operating Altitude Permissible	3000 m
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Certificates and Declarations (D	Occument Number)
ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SE-82315
CCC Certificate	CQC_2014010304676685
CQC Certificate	CQC2014010304676685

cUL Certificate	20140925-E73397
Declaration of Conformity - CCC	2020980304001306
Declaration of Conformity - CE	2CMT2015-005440
DNV GL Certificate	DNV_E-14043
EAC Certificate	9AKK107046A8618
Instructions and Manuals	N/A
LR Certificate	LR_14_70011(E1)
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
RoHS Information	2CMT2015-005440

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	166 mm
Package Level 1 Depth / Length	238 mm
Package Level 1 Height	180 mm
Package Level 1 Gross Weight	3.9 kg
Package Level 1 EAN	7320500503706

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)	3707214
E-Number (Norway)	4117785
E-Number (Sweden)	3210335

Categories

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