

PRODUCT-DETAILS

AF205-40-22-11 AF205-40-22-11 Contactor



Extended Product Type	AF205-40-22-1
Product ID	1SFL527102R112
EAN	732050050368
Catalog Description	AF205-40-22-11 Contacto
Long Description	The AF205-40-22-11 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 (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
1 piece	Minimum Order Quantity
35364900	Customs Tariff Number
8	Customs Tariff Number

Popular Downloads

Data Sheet, Technical Information

1SBC100192C0206

AF205-40-22-11

Instructions and Manuals	N/A
Dimension Diagram	1SFB535001G1122

Dimensions	
Product Net Width	140 mm
Product Net Depth / Length	152.5 mm
Product Net Height	196 mm
Product Net Weight	3.3 kg

Technical	
Number of Main Contacts NO	4
Number of Main Contacts NC	C
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 350 A
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 A (690 V) 60 °C 300 A (690 V) 70 °C 240 A
Rated Operational Current AC-3 (I _e)	(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 205
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
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 400 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	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
Maximum Breaking Capacity	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 hour
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 6 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 165 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 165 V·A Pull-in at Max. Rated Control Circuit Voltage DC 205 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 mm² Rigid Al-Cable 1 x 95 185 mm² Rigid Cu-Cable 2 x 50 120 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 1 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 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 °C Close to Contactor for Storage -40 +70 °C
Maximum Operating	Without Derating 3000 m

Altitude Permissible RoHS Status

ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SE-82315
CQC Certificate	CQC2014010304676685
cUL Certificate	20140925-E73397
Declaration of Conformity - CCC	2020980304001306

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

Declaration of Conformity

2CMT2015-005440

- CE

Declaration of Conformity - UKCA	2CMT2020-006118
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	7320500503683

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)	4755 >> Contactors
E-Number (Finland)	3707197

Categories

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

