

PRODUCT-DETAILS

## AF205-40-22-12 AF205-40-22-12 Contactor



General Information		
Extended Product Type	AF205-40-22-12	
Product ID	1SFL527102R1222	
EAN	7320500503669	
Catalog Description	AF205-40-22-12 Contacto	
Long Description	The AF205-40-22-12 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 (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 contactor have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.	
Ordering		
Minimum Onden Overstitu	4 - 1	
Minimum Order Quantity	1 piece	
Customs Tariff Number	1 piece 85364900	
,		
Customs Tariff Number		
Customs Tariff Number Popular Downloads Data Sheet, Technical	85364900	

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	0
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 <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 350 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>e</sub> )	(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 <sub>cw</sub> )	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 <sub>i</sub> )	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	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 <sub>c</sub> )	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 4 V A Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V A

Holding at Max. Rated Control Circuit Voltage 50 Hz 4 V:A Holding at Max. Rated Control Circuit Voltage 60 Hz 4 V:A

	Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V-A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 180 V-A Pull-in at Max. Rated Control Circuit Voltage DC 150 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 Rigid Al-Cable 1 x 95 185 mm Rigid Cu-Cable 1 x 6 150 mm
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 2.5 mm Flexible 1x0.75 2.5 mm Solid 2 x 1 4 mm Stranded 2 x 1 4 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 Technical UL/CSA	Main Circuit: Bars
	Main Circuit: Bars
Technical UL/CSA Maximum Operating	Main Circuit: Bars Main Circuit 1000 V
Technical UL/CSA Maximum Operating Voltage UL/CSA General Use Rating UL/CSA	
Technical UL/CSA Maximum Operating Voltage UL/CSA General Use Rating UL/CSA Environmental	Main Circuit: Bars Main Circuit 1000 V
Technical UL/CSA Maximum Operating Voltage UL/CSA General Use Rating	Main Circuit: Bars Main Circuit 1000 V (600 V AC) 250 A (600 V AC) 250 A 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) -25 50 °C

Certificates and Declarations (Document Number	,
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
Declaration of Conformity - CE	2CMT2015-005440
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

## AF205-40-22-12

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	7320500503669

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)	3707212

## Categories

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

