



PRODUCT-DETAILS

AF205B-30-22-12

AF205B-30-22-12 Contactor



General Information	
Extended Product Type	AF205B-30-22-12
Product ID	1SFL527063R1222
EAN	7320500511213
Catalog Description	AF205B-30-22-12 Contactor
Long Description	The AF205B-30-22-12 is a 3 pole - 1000 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and standard ferrules, controlling motors up to 110 kW / 400 V AC (AC-3) or 150 hp / 480 V UL and switching power circuits up to 350 A (AC-1) or 300 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 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 Information	1SBC100214C0202
Instructions and Manuals	1SFC100008M0201
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	105 mm
Product Net Depth / Length	152 mm
Product Net Height	196 mm
Product Net Weight	2.4 kg

Technical

Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	2
Number of Auxiliary Contacts NC	2
Number of Poles	3P
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-1, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011, IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.
Rated Operational Voltage	Main Circuit 1000 V
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 (500 V) 55 °C 165 A (690 V) 55 °C 165 A (1000 V) 55 °C 100 A (380 / 400 V) 55 °C 205 A (220 / 230 / 240 V) 55 °C 205 A
Rated Operational Current DC-1 (I_e)	(100 V) 1 Pole, 40 °C 350 A (100 V) 1 Pole, 60 °C 300 A (100 V) 1 Pole, 70 °C 240 A (110 V) 2 Poles in Series, 40 °C 350 A (110 V) 2 Poles in Series, 60 °C 300 A (110 V) 2 Poles in Series, 70 °C 240 A (110 V) 3 Poles in Series, 40 °C 350 A (110 V) 3 Poles in Series, 60 °C 300 A (110 V) 3 Poles in Series, 70 °C 240 A (175 V) 2 Poles in Series, 40 °C 350 A (175 V) 2 Poles in Series, 60 °C 300 A (175 V) 2 Poles in Series, 70 °C 240 A (200 V) 2 Poles in Series, 40 °C 350 A (200 V) 2 Poles in Series, 60 °C 300 A (200 V) 2 Poles in Series, 70 °C 240 A (220 V) 3 Poles in Series, 40 °C 350 A (220 V) 3 Poles in Series, 60 °C 300 A (220 V) 3 Poles in Series, 70 °C 240 A (260 V) 3 Poles in Series, 40 °C 350 A (260 V) 3 Poles in Series, 60 °C 300 A (260 V) 3 Poles in Series, 70 °C 240 A (300 V) 3 Poles in Series, 40 °C 350 A (300 V) 3 Poles in Series, 60 °C 300 A (300 V) 3 Poles in Series, 70 °C 240 A (72 V) 1-Pole, 40 °C 350 A (72 V) 1-Pole, 60 °C 300 A

	(72 V) 1-Pole, 70 °C 240 A (72 V) 2 Poles in Series, 40 °C 350 A (72 V) 2 Poles in Series, 60 °C 300 A (72 V) 2 Poles in Series, 70 °C 240 A (72 V) 3 Poles in Series, 40 °C 350 A (72 V) 3 Poles in Series, 60 °C 300 A (72 V) 3 Poles in Series, 70 °C 240 A (90 V) 1 Pole, 40 °C 350 A (90 V) 1 Pole, 60 °C 300 A (90 V) 1 Pole, 70 °C 240 A
Rated Operational Current DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 275 A (110 V) 2 Poles in Series, 60 °C 275 A (110 V) 2 Poles in Series, 70 °C 240 A (110 V) 3 Poles in Series, 40 °C 275 A (110 V) 3 Poles in Series, 60 °C 275 A (110 V) 3 Poles in Series, 70 °C 240 A (220 V) 3 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 60 °C 275 A (220 V) 3 Poles in Series, 70 °C 240 A (72 V) 2 Poles in Series, 40 °C 275 A (72 V) 2 Poles in Series, 60 °C 275 A (72 V) 2 Poles in Series, 70 °C 240 A (72 V) 3 Poles in Series, 40 °C 275 A (72 V) 3 Poles in Series, 60 °C 275 A (72 V) 3 Poles in Series, 70 °C 240 A
Rated Operational Current DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 275 A (110 V) 2 Poles in Series, 60 °C 275 A (110 V) 2 Poles in Series, 70 °C 240 A (110 V) 3 Poles in Series, 40 °C 275 A (110 V) 3 Poles in Series, 60 °C 275 A (110 V) 3 Poles in Series, 70 °C 240 A (220 V) 3 Poles in Series, 40 °C 275 A (220 V) 3 Poles in Series, 60 °C 275 A (220 V) 3 Poles in Series, 70 °C 240 A (72 V) 2 Poles in Series, 40 °C 275 A (72 V) 2 Poles in Series, 60 °C 275 A (72 V) 2 Poles in Series, 70 °C 240 A (72 V) 3 Poles in Series, 40 °C 275 A (72 V) 3 Poles in Series, 60 °C 275 A (72 V) 3 Poles in Series, 70 °C 240 A
Rated Operational Power AC-3 (P _e)	(415 V) 110 kW (440 V) 132 kW (500 V) 110 kW (690 V) 160 kW (1000 V) 132 kW (380 / 400 V) 110 kW (220 / 230 / 240 V) 55 kW
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
Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz / 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 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
Power Loss	8 W at Rated Operating Conditions per Pole 8 W
Terminal Type	Main Circuit: Bars
Product Name	Block Contactor

Technical UL/CSA

General Use Rating UL/CSA	(600 V AC) 300 A
Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 60 hp (220 ... 240 V AC) Three Phase 75 hp

Full Load Amps Motor Use	(440 ... 480 V AC) Three Phase 150 hp
	(550 ... 600 V AC) Three Phase 200 hp
	(200 ... 208 V AC) Three Phase 177 A
	(220 ... 240 V AC) Three Phase 192 A
	(440 ... 480 V AC) Three Phase 180 A
	(550 ... 600 V AC) Three Phase 192 A

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

A2L Certificate - UL	9AKK108468A6695
CB Certificate	SE-82315
CQC Certificate	CQC2014010304676685
Declaration of Conformity - CCC	2020980304001306
Declaration of Conformity - CE	2CMT2015-005440
Declaration of Conformity - UKCA	2CMT2020-006124
EAC Certificate	9AKK107046A8618
KC Certificate	9AKK107046A9912
UL Certificate	20121023-E36588

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	160 mm
Package Level 1 Depth / Length	258 mm
Package Level 1 Height	235 mm
Package Level 1 Gross Weight	3 kg
Package Level 1 EAN	7320500511213

Classifications

Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Sweden)	3210445

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF205

