PRODUCT-DETAILS

AF116B-40-22-14

AF116B-40-22-14 Contactor



General Information

Extended Product Type	AF116B-40-22-14
Product ID	1SFL427263R1422
EAN	7320500511435
Catalog Description	AF116B-40-22-14 Contactor
Long Description	The AF116B-40-22-14 is a 4 pole - 690 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and standard ferrules, controlling motors up to 55 kW / 400 V AC (AC-3) / and switching power circuits up to 160 A (AC-1) or 160 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (250-500 V 50/60 Hz), 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

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Popular Downloads

Data Sheet, Technical Information	1SBC100214C0202
Data Sheet, Technical Information (Part 2)	1SAC200017M0002
Instructions and Manuals	1SFC100003M0201
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	120 mm
Product Net Depth / Length	128 mm
Product Net Height	150 mm
Product Net Weight	2.05 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
Number of Poles	4P
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Rated Operational Current AC-1 (I_e)	(690 V) 40 °C 160 A (690 V) 60 °C 145 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 (I_e)	(415 V) 55 °C 116 A (440 V) 55 °C 116 A (380 / 400 V) 55 °C 116 A (220 / 230 / 240 V) 55 °C 116 A
Rated Operational Current DC-1 (I_e)	(110 V) 2 Poles in Series, 40 °C 160 A (110 V) 2 Poles in Series, 60 °C 145 A (110 V) 2 Poles in Series, 70 °C 130 A (110 V) 3 Poles in Series, 40 °C 160 A (110 V) 3 Poles in Series, 60 °C 145 A (110 V) 3 Poles in Series, 70 °C 130 A (175 V) 2 Poles in Series, 40 °C 160 A (175 V) 2 Poles in Series, 60 °C 145 A (175 V) 2 Poles in Series, 70 °C 130 A (220 V) 3 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 60 °C 145 A (220 V) 3 Poles in Series, 70 °C 130 A (260 V) 3 Poles in Series, 40 °C 160 A (260 V) 3 Poles in Series, 60 °C 145 A (260 V) 3 Poles in Series, 70 °C 130 A (350 V) 4 Poles in Series, 40 °C 200 A (350 V) 4 Poles in Series, 60 °C 145 A (350 V) 4 Poles in Series, 70 °C 130 A (72 V) 1-Pole, 40 °C 160 A (72 V) 1-Pole, 60 °C 145 A (72 V) 1-Pole, 70 °C 130 A (72 V) 2 Poles in Series, 40 °C 160 A

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	(72 V) 2 Poles in Series, 60 °C 145 A (72 V) 2 Poles in Series, 70 °C 130 A (72 V) 3 Poles in Series, 40 °C 160 A (72 V) 3 Poles in Series, 60 °C 145 A (72 V) 3 Poles in Series, 70 °C 130 A (90 V) 1 Pole, 40 °C 160 A (90 V) 1 Pole, 60 °C 145 A (90 V) 1 Pole, 70 °C 130 A
Rated Operational Current DC-3 (I_e)	(110 V) 2 Poles in Series, 40 °C 145 A (110 V) 2 Poles in Series, 60 °C 145 A (110 V) 2 Poles in Series, 70 °C 130 A (110 V) 3 Poles in Series, 40 °C 145 A (110 V) 3 Poles in Series, 60 °C 145 A (110 V) 3 Poles in Series, 70 °C 130 A (220 V) 3 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 60 °C 145 A (220 V) 3 Poles in Series, 70 °C 130 A (72 V) 2 Poles in Series, 40 °C 145 A (72 V) 2 Poles in Series, 60 °C 145 A (72 V) 2 Poles in Series, 70 °C 130 A (72 V) 3 Poles in Series, 40 °C 145 A (72 V) 3 Poles in Series, 60 °C 145 A (72 V) 3 Poles in Series, 70 °C 130 A
Rated Operational Current DC-5 (I_e)	(110 V) 2 Poles in Series, 40 °C 145 A (110 V) 2 Poles in Series, 60 °C 145 A (110 V) 2 Poles in Series, 70 °C 130 A (110 V) 3 Poles in Series, 40 °C 145 A (110 V) 3 Poles in Series, 60 °C 145 A (110 V) 3 Poles in Series, 70 °C 130 A (220 V) 3 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 60 °C 145 A (220 V) 3 Poles in Series, 70 °C 130 A (72 V) 2 Poles in Series, 40 °C 145 A (72 V) 2 Poles in Series, 60 °C 145 A (72 V) 2 Poles in Series, 70 °C 130 A (72 V) 3 Poles in Series, 40 °C 145 A (72 V) 3 Poles in Series, 60 °C 145 A (72 V) 3 Poles in Series, 70 °C 130 A
Rated Operational Power AC-3 (P_e)	(415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Breaking Capacity AC-3e	8.5 x Ie AC-3e
Rated Making Capacity AC-3	10 x Ie AC-3
Rated Making Capacity AC-3e	12 x Ie AC-3e
Rated Short-time Withstand Current Low Voltage (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 536 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 379 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
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-3) 300 cycles per hour
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 θ ≤ 70 °C)
Rated Control Circuit Voltage (U_c)	50 Hz / 60 Hz 250 ... 500 V DC Operation 250 ... 500 V
Coil Consumption	Average Pull-in Value 50 Hz 260 V·A Average Pull-in Value 60 Hz 260 V·A

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	Holding at Max. Rated Control Circuit Voltage 50 Hz 16.1 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 16.1 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 205 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 205 V·A Pull-in at Max. Rated Control Circuit Voltage DC 230 V·A Pull-in at Max. Rated Control Circuit Voltage DC 230 W
Power Loss	12 W at Rated Operating Conditions per Pole 12 W
Operate Time	Between Coil Energization and NO Contact Closing 25 ... 55 ms
Connecting Capacity Main Circuit	Flexible 2 x 10 ... 70 mm² Rigid Cu-Cable 2 x 10 ... 95 mm²
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
Connecting Capacity	Flexible 2 x 10 ... 70 mm² Rigid Cu-Cable 2 x 10 ... 95 mm²
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Tightening Torque	Cable Lug 9 N·m Main Circuit 8 N·m
Terminal Type	Main Circuit: Bars
Product Name	Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 160 A
Horsepower Rating UL/CSA	(200 ... 208 V AC) Three Phase 15 Hp (200 V AC) Three Phase 30 hp (208 V AC) Three Phase 30 hp (220 ... 240 V AC) Three Phase 20 Hp (220 ... 240 V AC) Three Phase 40 hp (440 ... 480 V AC) Three Phase 40 Hp (440 ... 480 V AC) Three Phase 75 hp (550 ... 600 V AC) Three Phase 50 Hp (550 ... 600 V AC) Three Phase 100 hp

Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 55 °C Close to Contactor for Storage -40 ... 70 °C
Maximum Operating Altitude Permissible	Without Derating 3000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	No declaration needed
Toxic Substances Control Act - TSCA	2CMT2023-006525

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WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions	Yes
ABB Site Meeting Group Waste To Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility
End Of Life Disassembling Instructions	1SFC100112M0001
Environmental Product Declaration - EPD	1SFC100092D0201
Improved Energy Efficiency for Customers	Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 87.8 %
Sustainable Material Content in Product (wt. %)	Recycled Metal - 37 %

Certificates and Declarations

CB Certificate	SEMKO_SE-77317
CQC Certificate	CQC2013010304604055
Declaration of Conformity - CCC	2020980304001304
Declaration of Conformity - CE	2CMT2015-005440
Declaration of Conformity - UKCA	2CMT2020-006124
EAC Certificate	9AKK107046A8618
KC Certificate	9AKK107046A9911
UL Certificate	E73397_20140710

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	147 mm
Package Level 1 Depth / Length	197 mm
Package Level 1 Height	155 mm
Package Level 1 Gross Weight	2.25 kg
Package Level 1 EAN	7320500511435

External Classifications and Standards

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

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IDEA Granular Category Code (IGCC)	4755 >> Contactors
E-Number (Sweden)	3210463

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF116



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