

PRODUCT-DETAILS

AF116-40-00B-12 AF116-40-00B-12 Contactor



General Information	
Extended Product Type	AF116-40-00B-12
Product ID	1SFL427102R1200
EAN	7320500503874
Catalog Description	AF116-40-00B-12 Contactor
Long Description	The AF116-40-00B-12 is a 4 pole - 690 V IEC or 600 V UL contactor with Main Circuit Bars, 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 (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
1 piece	Minimum Order Quantity
85364900	Customs Tariff Number

Popular Downloads	
Data Sheet, Technical Information	1SBC100192C0206

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Dimension Diagram 15FB5350 Dimension Diagram 15FB5350 Dimension Diagram 15FB5350 Dimensions Product Net Width Product Net Depth / Length Product Net Height Product Net Weight Technical Number of Main Contacts NO Number of Main Contacts NO Number of Auxiliary Contacts NO Number of Juxiliary Contacts NO Number of Juxiliary Contacts NO Rated Operational Voltage Main Circ Rated Frequency (f) Main Circ Conventional Free-air acc. to IEC 69947-4-1, Open Contactors 9 = 40 Thermal Current (f _⊕) (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599 ∨ 1, 40 (599	0003M0201
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Length	120 mm
Product Net Weight	120 11111
Number of Main Contacts NO	150 mm
Number of Main Contacts	1.95 kg
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Capacity Maximum Electrical (AC-1) 300 cycles Switching Frequency Rated Insulation Voltage (U _i) acc. to IEC 60947-4-1 and VDE 0110 (Gr. C	5 min 160 A 1 min 379 A e 1 s 1300 A
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(U _i) acc. to UL/C	es per hou
Rated Impulse Withstand Main Ci	
Voltage (U _{imp})	Circuit 8 kV
Mechanical Durability	5 millior
·	les per hou
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Switching Frequency	
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 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 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 40 70 ms Between Coil Energization and NO Contact Closing 20 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 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible 2x0.75 2.5 mm² Solid 2 x 1 4 mm² Stranded 1 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 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 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 Altitude Permissible	Without Derating 3000 m
Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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)

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Circular Value	
ABB EcoSolutions	Yes
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 87.8 %
End of Life Instructions	1SFC100112M0001
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
Improved Resource Efficiency for Customers	Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line
Sustainable Material Content	Recycled Metal - 37 %

Eco Transparency

Environmental Product 1SFC100092D0201 Declaration - EPD

Certificates and Declarations

ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SEMKO_SE-70479M1
CQC Certificate	CQC2013010304604055
Declaration of Conformity - CCC	2020980304001304
Declaration of Conformity - CE	2CMT2015-005440
Declaration of Conformity - UKCA	2CMT2020-006118
EAC Certificate	9AKK107046A8618
KC Certificate	9AKK107046A9911
LR Certificate	LR_14_70011(E1)
PRS Certificate	TE_2092_880423_16
RINA Certificate	ELE060313XG_002
RMRS Certificate	9AKK107045A6978
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	2.15 kg
Package Level 1 EAN	7320500503874

Classifications

Object Classification Code

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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)	4758 >> lec Contactors
E-Number (Finland)	3706072

Categories

 $Low\ Voltage\ Products\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ Contactors\ \rightarrow\ AF\ 116$

