

PRODUCT-DETAILS

AF140-40-00B-13 AF140-40-00B-13 Contactor



General Information		
Extended Product Type		AF140-40-00B-13
Product ID		1SFL447102R1300
EAN		7320500505212
Catalog Description		AF140-40-00B-13 Contactor
Long Description	The AF140-40-00B-13 is a 4 pole - 690 V IEC or 600 V UL contactor with Main Circuit Bars, controlling motors up to 75 kW / 400 V AC (AC-3) / and switching power circuits up to 200 A (AC-1) or 175 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 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		1SBC100192C0206
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AF140-40-00B-13

Instructions and Manuals	1SFC100003M0201
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SFB535001G1121

Dimensions	
Product Net Width	120 mm
Product Net Depth / Length	128 mm
Product Net Height	150 mm
Product Net Weight	1.95 kg

Technical		
Number of Main Contacts NO		4
Number of Main Contacts NC		0
Number of Auxiliary Contacts NO		0
Number of Auxiliary Contacts NC		0
Rated Operational Voltage		Main Circuit 690 V
Rated Frequency (f)		Main Circuit 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1	, Open Contactors Θ = 40 °C 200 A
Rated Operational Current AC-1 (I _e)		(690 V) 40 °C 200 A (690 V) 60 °C 175 A (690 V) 70 °C 160 A
Rated Operational Current AC-3 (I _e)		(415 V) 55 °C 140 A (440 V) 55 °C 140 A (380 / 400 V) 55 °C 140 A (220 / 230 / 240 V) 55 °C 140 A
Rated Operational Power AC-3 (P _e)		(415 V) 75 kW (440 V) 90 kW (380 / 400 V) 75 kW (220 / 230 / 240 V) 37 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 250 A
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free at 40 °C Ambient Temp, in Free at 40 °C Ambient Temp, in Fre	e Air, from a Cold State 10 s 1168 A Air, from a Cold State 15 min 200 A e Air, from a Cold State 1 min 477 A ee Air, from a Cold State 1 s 1460 A ee Air, from a Cold State 30 s 674 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=	0.35 for le > 100 A) at 440 V 3000 A
Maximum Electrical Switching Frequency		(AC-1) 300 cycles per hour
Rated Insulation Voltage (U _i)	acc. to IEC 6094	7-4-1 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		300 cycles per hour
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(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ °C)
50 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V
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 3 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 130 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 130 V·A Pull-in at Max. Rated Control Circuit Voltage DC 135 W
Between Coil De-energization and NO Contact Opening 40 70 ms Between Coil Energization and NO Contact Closing 20 55 ms
Flexible 2 x 10 70 mm² Rigid Cu-Cable 2 x 10 95 mm²
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
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
Main Circuit: Bars
4
(200 V AC) Three Phase 40 Hp (230 V AC) Three Phase 50 Hp (460 V AC) Three Phase 100 Hp (575 V AC) Three Phase 100 Hp
Main Circuit 600 V
(600 V AC) 200 A
(200 208 V AC) Three Phase 15 Hp (200 V AC) Three Phase 40 hp (208 V AC) Three Phase 40 hp

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

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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)	

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 Declaration - EPD	1SFC100092D0201
Certificates and Declarations	
Certificates and Declarations	
ABS Certificate	14-LD1092198-PDA
BV Certificate	BV_36353_A0BV
CB Certificate	SEMKO_SE-70479M1
CQC Certificate	CQC2013010304604055
Declaration of Conformity	2020980304001304
- CCC	2020300001304
- CCC Declaration of Conformity	202098050400130- 2CMT2015-00544(2CMT2020-006118
- CCC Declaration of Conformity - CE Declaration of Conformity	2CMT2015-005440 2CMT2020-006118
- CCC Declaration of Conformity - CE Declaration of Conformity - UKCA	2CMT2015-005440
- CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV GL Certificate	2CMT2015-005440 2CMT2020-006118 DNV_E-14043
- CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV GL Certificate EAC Certificate	2CMT2015-005440 2CMT2020-006118 DNV_E-14043 9AKK107046A8618
- CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV GL Certificate EAC Certificate KC Certificate	2CMT2015-005440 2CMT2020-006118 DNV_E-14043 9AKK107046A8618 9AKK107046A9911
- CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV GL Certificate EAC Certificate KC Certificate LR Certificate	2CMT2015-005440 2CMT2020-006118 DNV_E-14043 9AKK107046A8618 9AKK107046A9911 LR_14_70011(E1 TE_2092_880423_16
- CCC Declaration of Conformity - CE Declaration of Conformity - UKCA DNV GL Certificate EAC Certificate KC Certificate LR Certificate PRS Certificate	2CMT2015-005440 2CMT2020-006118 DNV_E-14043 9AKK107046A8618 9AKK107046A9911 LR_14_70011(E1

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	2.15 kg

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Weight

Package Level 1 EAN

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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)	4758 >> lec Contactors
E-Number (Finland)	3706099

Categories

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Contactors \rightarrow Block Contactors \rightarrow AF Contactors \rightarrow AF140

