

PRODUCT-DETAILS

AF205-40-00-13 AF205-40-00-13 Contactor



General Information		
Extended Product Type		AF205-40-00-13
Product ID		1SFL527102R1300
EAN		7320500503652
Catalog Description		AF205-40-00-13 Contactor
Long Description	The AF205-40-00-13 is a 4 pole - 1000 V IEC or 600 V UL contactor with 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 (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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AF205-40-00-13

Instructions and Manuals	1SFC100008M0201
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SFB535001G1122

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	4
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Rated Operational Voltage	Main Circuit 1000 V
Rated Frequency (f)	Main Circuit 50 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 350 A
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 (380 / 400 V) 55 °C 205 A (220 / 230 / 240 V) 55 °C 205 A
Rated Operational Power AC-3 (P_e)	(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 _{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
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_i)	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 8 kV

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Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	300 cycles per hou
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 _c)	50 Hz 100 250 \ 60 Hz 100 250 \ DC Operation 100 250 \
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V· Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V· Holding at Max. Rated Control Circuit Voltage DC 2.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 220 V· Pull-in at Max. Rated Control Circuit Voltage 60 Hz 220 V· Pull-in at Max. Rated Control Circuit Voltage DC 190 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 2 x 50 120 mm
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm Flexible with Insulated Ferrule 2x 0.75 2.5 mm Flexible 1x0.75 2.5 mm Solid 1 x 1 4 mm Stranded 1 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	Main Circuit: Bars
JL/CSA Horsepower Rating JL/CSA	(200 208 V AC) Three Phase 30 H (200 V AC) Three Phase 60 h (208 V AC) Three Phase 60 h (220 240 V AC) Three Phase 30 H (220 240 V AC) Three Phase 75 h (440 480 V AC) Three Phase 75 H (440 480 V AC) Three Phase 150 h (550 600 V AC) Three Phase 100 h
Environmental	(550 600 V AC) Three Phase 200 hj
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 n
Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A565
REACH Declaration	2CMT2021-00620
RoHS Information	2CMT2021-00627

Toxic Substances Control Act - TSCA

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2024/02/21

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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2CMT2023-006525

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

Circular Value	
ABB EcoSolutions	Ye
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 79.2 %
End of Life Instructions	1SFC100112M000
Group Waste to Landfill Target	Non-hazardous waste is sent to a landfill, where there is no alternative optior available within 100km of a facilit
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 lin
Sustainable Material Content	Recycled Metal - 35 %
Eco Transparency	
Environmental Product Declaration - EPD	1SFC100095D020
Certificates and Declarations	
Certificates and Declarations	14-LD1092198-PD/
ABS Certificate BV Certificate	BV_36353_A0B
ABS Certificate	BV_36353_A0B\ SE-8231
ABS Certificate BV Certificate CB Certificate	BV_36353_A0B SE-8231 CQC201401030467668
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity	BV_36353_A0BV SE-82319 CQC2014010304676689 2020980304001300
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity	14-LD1092198-PDA BV_36353_A0B\ SE-8231 CQC201401030467668 2020980304001306 2CMT2015-005440 2CMT2020-006118
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA	BV_36353_A0B SE-8231 CQC201401030467668 202098030400130 2CMT2015-00544
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA EAC Certificate	BV_36353_A0BV SE-8231 CQC201401030467668 202098030400130 2CMT2015-00544 2CMT2020-00611
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA EAC Certificate LR Certificate	BV_36353_A0BV SE-8231 CQC201401030467668 202098030400130 2CMT2015-00544 2CMT2020-00611 9AKK107046A861 LR_14_70011(E1
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity - UKCA EAC Certificate LR Certificate PRS Certificate	BV_36353_A0B SE-8231 CQC201401030467668 202098030400130 2CMT2015-00544 2CMT2020-00611 9AKK107046A861 LR_14_70011(E1 TE_2092_880423_1
ABS Certificate BV Certificate CB Certificate CQC Certificate Declaration of Conformity - CCC Declaration of Conformity - CE Declaration of Conformity	BV_36353_A0BV SE-8231 CQC201401030467668 202098030400130 2CMT2015-00544 2CMT2020-00611 9AKK107046A861

Container Information	
Package Level 1 Units	box 1 piece
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	7320500503652

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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)	3707213

Categories

 $\text{Low Voltage Products and Systems} \rightarrow \text{Control Products} \rightarrow \text{Contactors} \rightarrow \text{Block Contactors} \rightarrow \text{AF Contactors} \rightarrow \text{AF205}$

