

PRODUCT-DETAILS

AF116-30-00B-43 Contactor



General Information	
Extended Product Type	AF116-30-00B-43
Product ID	1SFL427002R4300
EAN	732050056074
Catalog Description	AF116-30-00B-43 Contacto
Long Description	The AF116-30-00B-43 is a 3 pole - 690 V IEC or 600 V UL contactor with Main Circuit Bars, controlling motors up to 55 kW / 400 V AC (AC-3) or 75 hp / 480 V UL 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 control voltage range (220-240 V 50/60 Hz),faster operation time, 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	8536490099
Popular Downloads	
Instructions and Manuals	1SFC100003M0201
CAD Dimensional	2CDC001079B0201

Product Net Width	90 mm
Product Net Depth / Length	126 mm
Product Net Height	150 mm
Product Net Weight	1.3 kg
 Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	C
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	(
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 160 A
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) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 65 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Current AC-3e (I _e)	(415 V) 60 °C 116 A (440 V) 60 °C 116 A (500 V) 60 °C 110 A (690 V) 60 °C 65 A (380 / 400 V) 60 °C 116 A (220 / 230 / 240 V) 60 °C 116 A
Rated Operational Power AC-3 (P _e)	(400 V) 55 kW (415 V) 55 kW (440 V) 75 kW (500 V) 55 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Operational Power AC-3e (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-3	8 x le AC-3
Rated Breaking Capacity AC-3e	8.5 x le AC-3e
Rated Making Capacity AC-3	10 x le AC-3
Rated Making Capacity AC-3e	12 x le AC-36
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 928 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 2000 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 1000 A
Maximum Electrical	(AC-1) 300 cycles per hou

Switching Frequency	(AC-2 / AC-4) 150 cycles per hour (AC-3) 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 1000 V
Rated Impulse Withstand Voltage (U _{imp})	Main Circuit 8 kV
Mechanical Durability	5 million
Maximum Mechanical Switching Frequency	300 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 220 240 V 60 Hz 220 240 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 8 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.5 W Holding at Max. Rated Control Circuit Voltage 60 Hz 8 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 2.5 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
Operate Time	Between Coil De-energization and NO Contact Opening 15 20 ms Between Coil Energization and NO Contact Closing 20 35 ms
Connecting Capacity Main Circuit	Flexible 2 x 10 70 mm² Rigid Cu-Cable 1 x 10 95 mm²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1x 0.75 2.5 mm² Flexible with Ferrule 2x 0.75 2.5 mm² Flexible with Insulated Ferrule 1x 0.75 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 2.5 mm² Flexible 1x 0.75 2.5 mm² Flexible 1x 0.75 2.5 mm² Flexible 2x 0.75 2.5 mm² Solid 1x 1 4 mm² Solid 2x 1 4 mm² Stranded 1x 1 4 mm² Stranded 2x 1 4 mm²
Wire Stripping Length	Auxiliary Circuit 9 mm Control Circuit 9 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
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 30 hp (220 240 V AC) Three Phase 40 hp (440 480 V AC) Three Phase 75 hp (550 600 V AC) Three Phase 100 hp
Tightening Torque UL/CSA	Auxiliary Circuit 9 in·lb Control Circuit 9 in·lb Main Circuit 71 in·lb
Environmental	
Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 1.1 Uc) -25 55 °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
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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 Declaration - EPD	1SFC100092D0201

Certificates and Declarations	
Declaration of Conformity - CE	2CMT2015-005439
Declaration of Conformity - UKCA	2CMT2020-006118
UL Certificate	20120925-E36588

Container Information	
box 1 piece	
207 mm	
216 mm	
150 mm	
1.5 kg	
7320500560747	

Classifications Object Classification Code	
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors

Categories

 $Low\ Voltage\ Products\ and\ Systems\ \rightarrow\ Control\ Products\ \rightarrow\ Contactors\ \rightarrow\ Block\ Contactors$

