

# AF116-30-00B-13



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

## General Information

<b>Extended Product Type:</b>	AF116-30-00B-13
<b>Product ID:</b>	1SFL427002R1300
<b>EAN:</b>	7320500476512
<b>Catalog Description:</b>	AF116-30-00B-13 Contactor
<b>Long Description:</b>	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 690 V. Operated with wide control voltage range 100-250 V, 50/60 Hz and DC

## Additional Information

<b>ABB Industrial IT Suite:</b>	Control IT
<b>Ambient Air Temperature:</b>	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
<b>Battery Information:</b>	Type NONE
<b>Block Contactor Type:</b>	3-Pole Contactor
<b>CB Certificate:</b>	SE-70479
<b>CCC Certificate:</b>	CQC_2013010304604055
<b>Coil Consumption:</b>	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 130 V·A Holding at Max. Rated Control Circuit Voltage DC 3 W Holding at Max. Rated Control Circuit Voltage 50 Hz 6 V·A Pull-in at Max. Rated Control Circuit Voltage DC 135 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 130 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 6 V·A
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70$ °C) °C
<b>Coil Voltage Code:</b>	13
<b>Connecting Capacity:</b>	Rigid Cu-Cable 2 x 10 ... 95 mm <sup>2</sup> Flexible 2 x 10 ... 70 mm <sup>2</sup>
<b>Connecting Capacity Auxiliary Circuit:</b>	Solid 2 x 1 ... 4 mm <sup>2</sup> Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup> Stranded 2 x 1 ... 4 mm <sup>2</sup> Flexible 1x0.75 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2 x 0.75 ... 2.5 mm <sup>2</sup>
<b>Connecting Capacity Main Circuit:</b>	Rigid Cu-Cable 2 x 10 ... 95 mm <sup>2</sup> Flexible 1 x 10 ... 70 mm <sup>2</sup>
<b>Connecting terminals (delivered in open position):</b>	YES
<b>Connecting terminals (delivered in open position) Coils terminals:</b>	YES
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
<b>Country of Origin:</b>	Sweden (SE)
<b>Customs Tariff Number:</b>	85364900
<b>Data Sheet, Technical Information:</b>	1SFC101070D0201
<b>Declaration of Conformity - CE:</b>	2CMT004242
<b>Degree of Protection:</b>	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00
<b>Dimension Diagram:</b>	1SFB535001G1051
<b>Drop-out Voltage in % of Uc:</b>	55 %
<b>EAN:</b>	7320500476512
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Relays. contactors / Contactors

<b>EPLAN Function Definition:</b>	NO contact / NO contact, 2 connection points / Power NO contact 5_6 Coil / Coil, 2 connection points / Coil for power contactor A1_A2
<b>ETIM 4:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 5:</b>	EC000066 - Magnet contactor, AC-switching
<b>ETIM 6:</b>	EC000066 - Power contactor, AC switching
<b>Environmental Information:</b>	2CMT004732
<b>Full Load Amps Motor Use:</b>	(440 ... 480 V AC) Three Phase 96 A (550 ... 600 V AC) Three Phase 99 A
<b>General Use Rating UL/CSA:</b>	(600 V AC) 160 A
<b>Horsepower Rating UL/CSA:</b>	(208 V AC) Three Phase 30 Hp (440 ... 480 V AC) Three Phase 75 Hp (550 ... 600 V AC) Three Phase 100 Hp (220 ... 240 V AC) Three Phase 40 Hp (200 V AC) Three Phase 30 Hp
<b>IT Publishing Status:</b>	Level 0 - Information enabled
<b>Industrial IT Certification Level:</b>	0
<b>Instructions and Manuals:</b>	1SFC100003M0201
<b>Invoice Description:</b>	AF116-30-00B-13 Contactor
<b>Made To Order:</b>	No
<b>Maximum Breaking Capacity:</b>	cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 2000 A cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 1000 A
<b>Maximum Electrical Switching Frequency:</b>	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour
<b>Maximum Mechanical Switching Frequency:</b>	300 cycles per hour
<b>Maximum Operating Altitude Permissible:</b>	3000 m
<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V
<b>Mechanical Durability:</b>	5 million
<b>Minimum Order Quantity:</b>	1 piece
<b>Mounted Auxiliary Contacts:</b>	0 NO, 0 NC
<b>Number of Auxiliary Contacts NC:</b>	0
<b>Number of Auxiliary Contacts NO:</b>	0
<b>Number of Main Contacts NC:</b>	0
<b>Number of Main Contacts NO:</b>	3
<b>Number of Poles:</b>	3
<b>Object Classification Code:</b>	Q
<b>Operate Time:</b>	Between Coil De-energization and NO Contact Opening 37 ... 47 ms Between Coil Energization and NO Contact Closing 25 ... 55 ms
<b>Order Multiple:</b>	1 piece
<b>Package Level 1 EAN:</b>	7320500476512
<b>Package Level 1 Gross Weight:</b>	1.642 kg
<b>Package Level 1 Height:</b>	169 mm
<b>Package Level 1 Length:</b>	115 mm
<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	194 mm
<b>Part Type:</b>	New
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 6 W
<b>Product Main Type:</b>	AF116
<b>Product Name:</b>	Contactor
<b>Product Net Depth:</b>	126.0 mm

<b>Product Net Height:</b>	150.0 mm
<b>Product Net Weight:</b>	1.512 kg
<b>Product Net Width:</b>	90.0 mm
<b>Product Packing Type:</b>	Box
<b>Quote Only:</b>	No
<b>RINA Certificate:</b>	ELE060313XG/002
<b>Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:</b>	8 x I <sub>e</sub> AC-3
<b>Rated Control Circuit Voltage (U<sub>c</sub>):</b>	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
<b>Rated Frequency (f):</b>	Main Circuit 50/60 Hz
<b>Rated Frequency Limits:</b>	25 ... 400 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 8 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
<b>Rated Making Capacity AC-3 acc. to IEC 60947-4-1:</b>	10 x I <sub>e</sub> AC-3
<b>Rated Operational Current AC-1 (I<sub>e</sub>):</b>	(690 V) 55 °C 145 A (690 V) 40 °C 160 A (690 V) 70 °C 130 A
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	(690 V) 55 °C 65 A (220 / 230 / 240 V) 55 °C 116 A (415 V) 55 °C 116 A (440 V) 55 °C 116 A (380 / 400 V) 55 °C 116 A (500 V) 55 °C 110 A
<b>Rated Operational Current DC-1 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
<b>Rated Operational Current DC-3 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
<b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
<b>Rated Operational Power AC-3 (P<sub>e</sub>):</b>	(220 / 230 / 240 V) 30 kW (380 / 400 V) 55 kW (415 V) 55 kW (440 V) 75 kW (500 V) 75 kW (690 V) 55 kW
<b>Rated Operational Voltage:</b>	Main Circuit 690 V
<b>Rated Short-time Withstand Current (I<sub>cw</sub>):</b>	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 536 A 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 s 1160 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 379 A
<b>RoHS Date:</b>	1226 1
<b>RoHS Information:</b>	1SFC101055D0202
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment
<b>Selling Unit of Measure:</b>	piece
<b>Short Description:</b>	AF116-30-00B-13 Contactor
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 250 A
<b>Technical Information:</b>	Mechanically
<b>Terminal Type:</b>	Main Circuit: Bars
<b>Tightening Torque:</b>	Cable Lug 9 N·m Main Circuit 8 N·m

UNSPSC:

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