

AF145-30-11 100-250V 50/60Hz / 100-250V DC



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

General Information

Extended Product Type:	AF145-30-11 100-250V 50/60Hz / 100-250V DC
Product ID:	1SFL477001R7011
EAN:	7320500220191
Catalog Description:	AF145-30-11 100-250V 50/60Hz / 100-250V DC Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC

Additional Information

ABB Industrial IT Suite:	Control IT
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
BV Certificate:	13409/C0 BV
Battery Information:	Type NONE
Block Contactor Type:	3-Pole Contactor
CB Certificate:	SE-69478
CCC Certificate:	CQC_2007010304256685
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 430 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 500 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 430 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70$ °C) °C
Coil Voltage Code:	70
Connecting Capacity:	Rigid Al-Cable 1x25...150 mm ² Bar 24 mm Rigid Cu-Cable 1x6...185 mm ²
Connecting Capacity Auxiliary Circuit:	Solid 2x1...4 mm ² Flexible with Insulated Ferrule 1x0.75...2.5 mm ² Stranded 2x1...4 mm ² Flexible 2x0.75...2.5 mm ² Flexible with Ferrule 2x0.75...2.5 mm ²
Connecting Capacity Main Circuit:	Rigid Al-Cable 1x25...150 mm ² Bar 24 mm Rigid Cu-Cable 1x6...185 mm ²
Connecting terminals (delivered in open position):	YES
Connecting terminals (delivered in open position) Coils terminals:	YES
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 250 A
Country of Origin:	Sweden (SE)
Customs Tariff Number:	85364900
Data Sheet, Technical Information:	1SBC100122C0202
Declaration of Conformity - CE:	1SFA1-61
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

Dimension Diagram:	53540923-7
Drop-out Voltage in % of U_c:	55 %
E-nummer:	3228286
EAN:	7320500220191
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
Environmental Information:	1SFC101007D0201
Full Load Amps Motor Use:	(440 ... 480 V AC) Three Phase 124 A (550 ... 600 V AC) Three Phase 125 A
GL Certificate:	GL_20261-04HH
General Use Rating UL/CSA:	(600 V AC) 230 A
Horsepower Rating UL/CSA:	(208 V AC) Three Phase 40 Hp (440 ... 480 V AC) Three Phase 100 Hp (550 ... 600 V AC) Three Phase 125 Hp (220 ... 240 V AC) Three Phase 50 Hp (200 V AC) Three Phase 40 Hp
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SFC380003-89
Invoice Description:	AF145-30-11 100-250V 50/60Hz / 100-250V DC Contactor
LOVAG Certificate:	SE-0105160
LR Certificate:	LR_04-00015-E1
Made To Order:	No
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 1500 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 1200 A
Maximum Electrical Switching Frequency:	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour
Maximum Mechanical Switching Frequency:	300 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
Maximum Peak Current:	For Capacitor Switching Î 4 kA
Maximum Î_{peak} Permissible:	30
Mechanical Durability:	5 million
Minimum Order Quantity:	1 piece
Mounted Auxiliary Contacts:	1 NO, 1 NC
NEMA Size:	4
Number of Auxiliary Contacts NC:	1
Number of Auxiliary Contacts NO:	1
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Number of Poles:	3
Object Classification Code:	Q
Operate Time:	Between Coil Energization and NO Contact Closing 50 ... 90 ms Between Coil De-energization and NO Contact Opening 43 ... 53 ms Between Coil De-energization and NC Contact Closing 40 ... 50 ms Between Coil Energization and NC Contact Opening 45 ... 85 ms
Order Multiple:	1 piece
Package Level 1 EAN:	7320500220191
Package Level 1 Gross Weight:	3.6 kg

Package Level 1 Height:	245 mm
Package Level 1 Length:	180 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	170 mm
Part Type:	New
Power Loss:	at Rated Operating Conditions per Pole 5 W
Product Main Type:	AF145
Product Name:	Contactor
Product Net Depth:	160.0 mm
Product Net Height:	196.0 mm
Product Net Weight:	3.600 kg
Product Net Width:	111.5 mm
Product Packing Type:	Box
Quote Only:	No
RINA Certificate:	ELE060313XG/002
RMRS Certificate:	RMRS_12-03683-315
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I _e AC-3
Rated Control Circuit Voltage (U _c):	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
Rated Frequency (f):	Main Circuit 50/60 Hz
Rated Frequency Limits:	25...400 Hz
Rated Impulse Withstand Voltage (U _{imp}):	Main Circuit 8 kV
Rated Insulation Voltage (U _i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I _e AC-3
Rated Operational Current AC-1 (I _e):	(690 V) 55 °C 230 A (690 V) 40 °C 250 A (1000 V) 40 °C 180 A (1000 V) 55 °C 180 A (690 V) 70 °C 180 A (1000 V) 70 °C 180 A
Rated Operational Current AC-3 (I _e):	(1000 V) 55 °C 80 A (690 V) 55 °C 120 A (220 / 230 / 240 V) 55 °C 145 A (415 V) 55 °C 145 A (440 V) 55 °C 145 A (380 / 400 V) 55 °C 145 A (500 V) 55 °C 145 A
Rated Operational Current DC-1 (I _e):	(110 V) 2 Poles in Series, 40 °C 250 A (220 V) 3 Poles in Series, 40 °C 250 A
Rated Operational Current DC-3 (I _e):	(110 V) 2 Poles in Series, 40 °C 250 A (220 V) 3 Poles in Series, 40 °C 250 A
Rated Operational Current DC-5 (I _e):	(110 V) 2 Poles in Series, 40 °C 250 A (220 V) 3 Poles in Series, 40 °C 250 A
Rated Operational Power AC-3 (P _e):	(220 / 230 / 240 V) 45 kW (380 / 400 V) 75 kW (415 V) 75 kW (440 V) 75 kW (500 V) 90 kW (690 V) 110 kW (1000 V) 110 kW
Rated Operational Power AC-6a (P _e):	(500 V) 80 kW A

Rated Operational Short-circuit capacity (I _{sc}):	(300 V) 50 kV·A (415 / 440 V) 65 kV·A (380 / 400 V) 60 kV·A (660 / 690 V) 105 kV·A (220 / 240 V) 35 kV·A
Rated Operational Voltage:	Main Circuit 690 V
Rated Short-time Withstand Current (I _{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 800 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 280 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1800 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 600 A
Replacement Product ID (NEW):	1SFL447002R1311
Resistance to Shock acc. to IEC 60068-2-27:	Shock Direction: A 5 g Shock Direction: C2 5 g Shock Direction: B2 5 g Shock Direction: C1 5 g Shock Direction: B1 5 g
RoHS Date:	0811 4
RoHS Information:	1SFC101055D0202
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment
Selling Unit of Measure:	piece
Short Description:	AF145-30-11 100-250V 50/60Hz / 100-250V DC Contactor
Short-Circuit Protective Devices:	gG Type Fuses 315 A
Technical Information:	Mechanically
Terminal Type:	Main Circuit: Bars
Tightening Torque:	Main Circuit 18 N·m
UNSPSC:	39121529

