

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



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

Categories

Products » Low Voltage Products and Systems » Control Products » Contactors » Across the Line Contactors

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
Replacement Product ID (NEW):	1SFL447002R1311

Popular Downloads

Data Sheet, Technical Information:	1SBC100122C0202
Dimension Diagram:	&#160;53540923-7

Dimensions

Product Net Width:	111.5 mm
Product Net Depth:	160.0 mm
Product Net Height:	196.0 mm
Product Net Weight:	3.600 kg

Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	1
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 q = 40 °C 250 A
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 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 Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I _e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I _e AC-3
Short-Circuit Protective Devices:	gG Type Fuses 315 A
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

Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 1500 A cos phi=0.45 (cos phi=0.35 for le > 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
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 Insulation Voltage (U_i):	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 8 kV
Mechanical Durability:	5 million
Maximum Mechanical Switching Frequency:	300 cycles per hour
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 x U _c Min. ... 1.1 x U _c Max. (at $\theta \leq 70$ °C) °C
Rated Control Circuit Voltage (U_c):	60 Hz 100 ... 250 V 50 Hz 100 ... 250 V DC Operation 100 ... 250 V
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
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
Connecting Capacity Main Circuit:	Rigid Al-Cable 1x25...150 mm² Bar 24 mm Rigid Cu-Cable 1x6...185 mm²
Connecting Capacity Auxiliary Circuit:	Solid 2x1...4 mm² Flexible with Insulated Ferrule 1x0.75...2.5 mm² Stranded 2x1...4 mm² Flexible 2x0.75...2.5 mm² Flexible with Ferrule 2x0.75...2.5 mm²
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

Environmental

Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U _c) -25...+50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U _c) -40...+70 °C Close to Contactor for Storage -40...+70 °C
Maximum Operating Altitude Permissible:	3000 m
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 Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
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

Certificates and Declarations (Document Number)

BV Certificate:	13409/C0 BV
CB Certificate:	SE-69478
CCC Certificate:	CQC_2007010304256685
Declaration of Conformity - CE:	1SFA1-61

GL Certificate:	GL_20261-04HH
Instructions and Manuals:	1SFC380003-89
LOVAG Certificate:	SE-0105160
LR Certificate:	LR_04-00015-E1
RINA Certificate:	ELE060313XG/002
RMRS Certificate:	RMRS_12-03683-315
RoHS Information:	1SFC101055D0202

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	170 mm
Package Level 1 Length:	180 mm
Package Level 1 Height:	245 mm
Package Level 1 Gross Weight:	3.6 kg
Package Level 1 EAN:	7320500220191

Classifications

Object Classification Code:	Q
E-number:	3228286
ETIM 4:	EC000066 - Magnet contactor, AC-switching
ETIM 5:	EC000066 - Magnet contactor, AC-switching
ETIM 6:	EC000066 - Power contactor, AC switching
UNSPSC:	39121529

