PRODUCT-DETAILS

AF110-30-00-70

AF110-30-00 100-250V 50/60Hz / DC Contactor

General Information

Extended Product Type:	AF110-30-00-70
Product ID:	1SFL457001R7000
EAN:	7320500239698
Catalog Description:	AF110-30-00 100-250V 50/60Hz / DC Contactor
Long Description:	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 100-250 V, AC/DC
Display Name:	AF110-30-00-70

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900
Replacement Product ID (NEW):	1SFL427001R1300

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Popular Downloads

Data Sheet, Technical Information:	1SBC100192C0206
Instructions and Manuals:	5309660-60

Dimensions

Product Net Width:	90 mm
Product Net Depth / Length:	123.5 mm
Product Net Height:	148 mm
Product Net Weight:	1.9 kg
Dimension Diagram:	53540923-4

Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Auxiliary Contacts NC:	0
Number of Poles:	3P
Rated Operational Voltage:	Main Circuit 1000 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) 55 °C 145 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 (I_e):	(415 V) 55 °C 110 A (440 V) 55 °C 100 A (500 V) 55 °C 100 A (690 V) 55 °C 82 A (1000 V) 55 °C 30 A (380 / 400 V) 55 °C 110 A (220 / 230 / 240 V) 55 °C 110
Rated Operational Current DC-1 (I_e):	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
Rated Operational Current DC-3 (I_e):	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
Rated Operational Current DC-5 (I_e):	(110 V) 2 Poles in Series, 40 °C 160 A (220 V) 3 Poles in Series, 40 °C 160 A
Rated Operational Power AC-3 (P_e):	(415 V) 59 kW (440 V) 59 kW (500 V) 59 kW (690 V) 75 kW (1000 V) 40 kW (380 / 400 V) 55 kW (220 / 230 / 240 V) 30 kW
Rated Breaking Capacity AC-3:	8 x Ie AC-3
Rated Making Capacity AC-3:	10 x Ie AC-3
Short-Circuit Protective Devices:	gG Type Fuses 160 A

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Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 1160 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 800 A
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
Maximum Electrical Switching Frequency:	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Mechanical Durability:	10 million
Maximum Mechanical Switching Frequency:	300 cycles per hour
Coil Operating Limits:	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C)
Rated Control Circuit Voltage (U_c):	50 Hz 48 ... 130 V 60 Hz 48 ... 130 V DC Operation 48 ... 130 V
Coil Consumption:	Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 350 V·A Pull-in at Max. Rated Control Circuit Voltage DC 400 W
Power Loss:	at Rated Operating Conditions per Pole 3.5 W
Operate Time:	Between Coil De-energization and NC Contact Closing 60 ... 130 ms Between Coil De-energization and NO Contact Opening 55 ... 125 ms Between Coil Energization and NC Contact Opening 27 ... 77 ms Between Coil Energization and NO Contact Closing 30 ... 80 ms
Connecting Capacity Main Circuit:	Bar 30 mm² Flexible with Cable End 2 x 6 ... 35 mm² Rigid 2 x 6 ... 65 mm²
Connecting Capacity Auxiliary Circuit:	Flexible with Ferrule 2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm² Flexible 1x0.75 ... 2.5 mm² Solid 1 x 1 ... 4 mm² Stranded 2 x 1 .... 4 mm²
Connecting Capacity:	Bar 30 mm² Flexible with Cable End 2 x 6 ... 35 mm² Rigid 1 x 10 ... 95 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 IP10
Connecting Terminals (delivered in open position) Main Poles:	M8 hexagon socket screw with single connector
Tightening Torque:	Main Circuit 8 N·m
Terminal Type:	Cable Clamp
Product Name:	Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
General Use Rating UL/CSA:	(600 V AC) 140 A
Horsepower Rating UL/CSA:	(200 V AC) Three Phase 30 hp (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

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Full Load Amps Motor Use:	(440 ... 480 V AC) Three Phase 96 A (550 ... 600 V AC) Three Phase 99 A

Environmental

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 -60 ... +80 °C
Maximum Operating Altitude Permissible:	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27:	Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: A 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: A 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: B1 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 20 g

Material Compliance

Conflict Minerals Reporting Template (CMRT):	9AKK108467A5658
RoHS Declaration:	2CMT2015-005436
RoHS Information:	Following EU Directive 2011/65/EU
WEEE B2C / B2B:	Business To Business
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

ABS Certificate:	15-LD1408622-PDA
BV Certificate:	BV_13409-C0BV
CB Certificate:	SEMKO_SE-73663
CCS Certificate:	GB14T00030
CQC Certificate:	CQC2002010304007860 CQC2009010304353506
Declaration of Conformity - CCC:	2020980304001857 2020980304001073
Declaration of Conformity - CE:	2CMT2015-005436
DNV GL Certificate:	TAE00001W1
GL Certificate:	GL_20260-04HH
LOVAG Certificate:	SE9831016
LR Certificate:	16-20064
RINA Certificate:	ELE060313XG_002
RMRS Certificate:	RMRS_12-03683-315

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Container Information

Package Level 1 Units:	box 1 piece
Package Level 1 Width:	130 mm
Package Level 1 Depth / Length:	265 mm
Package Level 1 Height:	162 mm
Package Level 1 Gross Weight:	2.1 kg
Package Level 1 EAN:	7320500239698

External Classifications and Standards

Object Classification Code:	Q
ETIM 7:	EC000066 - Power contactor, AC switching
ETIM 8:	EC000066 - Power contactor, AC switching
ETIM 9:	EC000066 - Power contactor, AC switching
eClass:	V11.0 : 27371003
UNSPSC:	39121529
IDEA Granular Category Code (IGCC):	4755 >> Contactors
E-Number (Finland):	3709244
E-Number (Sweden):	3228279

Categories

Products > Low Voltage Products and Systems > Control Products > Contactors > Block Contactors > AF Contactors

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