AF95-30-11-70

AF95-30-11 100-250V 50/60Hz / DC Contactor

General Information

Extended Product Type	AF95-30-11-70
Product ID	1SFL437001R7011
EAN	7320500237403
Catalog Description	AF95-30-11 100-250V 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

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900
Replacement Product ID (NEW)	1SBL407001R1311

Popular Downloads

Data Sheet, Technical Information	1SBC100122C0202
Instructions and Manuals	5309660-60
Dimension Diagram	53540923-1

Dimensions

Product Net Width	102.0 mm
Product Net Depth / Length	123.5 mm
Product Net Height	148.0 mm
Product Net Weight	2.100 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 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 q = 40 °C 145 A
	(690 V) 55 °C 135 A

Rated Operational Current AC-1 (I_e)	(690 V) 40 °C 145 A (690 V) 70 °C 115 A
Rated Operational Current AC-3 (I_e)	(1000 V) 55 °C 30 A (690 V) 55 °C 65 A (220 / 230 / 240 V) 55 °C 96 A (415 V) 55 °C 96 A (440 V) 55 °C 93 A (380 / 400 V) 55 °C 96 A (500 V) 55 °C 80 A
Rated Operational Power AC-3 (P_e)	(220 / 230 / 240 V) 25 kW (380 / 400 V) 45 kW (415 V) 55 kW (440 V) 55 kW (500 V) 55 kW (690 V) 55 kW (1000 V) 40 kW
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x Ie AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1	10 x Ie AC-3
Short-Circuit Protective Devices	gG Type Fuses 160 A
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
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 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Current DC-3 (I_e)	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 A
Rated Operational Current DC-5 (I_e)	(110 V) 2 Poles in Series, 40 °C 145 A (220 V) 3 Poles in Series, 40 °C 145 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	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) °C
Rated Control Circuit Voltage (U_c)	50 Hz 100...250 V 60 Hz 100...250 V DC Operation 100...250 V
Coil Consumption	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 350 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Pull-in at Max. Rated Control Circuit Voltage DC 400 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A
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	Flexible with Cable End 1 x 10 ... 70 mm² Bar 30 mm² Rigid 2 x 6 ... 65 mm²
Connecting Capacity Auxiliary Circuit	Solid 2 x 1 ... 4 mm² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm² Stranded 2 x 1 .... 4 mm² Flexible 1x0.75 ... 2.5 mm² Flexible with Ferrule 2 x 0.75 ... 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 IP10
Connecting terminals (delivered in open position) Main poles	M8 hexagon socket screw with single connector
Terminal Type	Cable Clamp

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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	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, Open, Shock Direction: C2 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: A 20 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: B2 15 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, Closed, Shock Direction: C1 20 g
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

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Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 125 A
Horsepower Rating UL/CSA	(208 V AC) Three Phase 30 Hp (440 ... 480 V AC) Three Phase 60 Hp (550 ... 600 V AC) Three Phase 75 Hp (220 ... 240 V AC) Three Phase 30 Hp (200 V AC) Three Phase 30 Hp

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Certificates and Declarations (Document Number)

BV Certificate	13409/C0 BV
CB Certificate	SE-73661
CCC Certificate	CQC_2002010304007860
Declaration of Conformity - CE	1SFA1-66
Environmental Information	1SFC101006D0201
GL Certificate	GL_20260-04HH
Instructions and Manuals	5309660-60
LR Certificate	LR_04-00015-E1
RINA Certificate	ELE060313XG/002
RMRS Certificate	RMRS_12-03683-315
RoHS Information	1SFC101055D0202

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Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	140 mm
Package Level 1 Depth / Length	140 mm
Package Level 1 Height	170 mm
Package Level 1 Gross Weight	2.1 kg
Package Level 1 EAN	7320500237403

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Classifications

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

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Categories

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