

AF300-30-11-70



AF300-30-11 100-250V 50/60Hz / 100-250V DC Contactor

General Information

Extended Product Type	AF300-30-11-70
Product ID	1SFL557001R7011
EAN	7320500220344
Catalog Description	AF300-30-11 100-250V 50/60Hz / 100-250V DC Contactor
Long Description	A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, By-pass and Distribution application up to max 690 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)	1SFL587002R1311

Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	1SFC380003-89
Dimension Diagram	53540930-2

Dimensions

Product Net Width	140 mm
Product Net Depth / Length	180.5 mm
Product Net Height	227 mm
Product Net Weight	5.8 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 500 A (690 V) 55 °C 400 A

Rated Operational Current AC-1 (I_e)	(690 V) 40 °C 500 A (690 V) 70 °C 325 A
Rated Operational Current AC-3 (I_e)	(415 V) 55 °C 300 A (690 V) 55 °C 280 A (220 / 230 / 240 V) 55 °C 305 A (440 V) 55 °C 280 A (380 / 400 V) 55 °C 305 A (500 V) 55 °C 280 A
Rated Operational Power AC-3 (P_e)	(220 / 230 / 240 V) 90 kW (380 / 400 V) 160 kW (415 V) 160 kW (440 V) 160 kW (500 V) 200 kW (690 V) 250 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 500 A
Rated Short-time Withstand Current (I_{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 1500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 2400 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 3500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 1100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 3000 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 2500 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 450 A (220 V) 3 Poles in Series, 40 °C 450 A
Rated Operational Current DC-3 (I_e)	(110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 A
Rated Operational Current DC-5 (I_e)	(110 V) 2 Poles in Series, 40 °C 450 A (220 V) 3 Poles in Series, 40 °C 450 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 470 V·A Holding at Max. Rated Control Circuit Voltage DC 2 W Holding at Max. Rated Control Circuit Voltage 50 Hz 10 V·A Pull-in at Max. Rated Control Circuit Voltage DC 520 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 470 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 10 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 2 x 95 ... 120 mm ² Bar 32 mm Rigid Cu-Cable 16 ... 240 mm ²
Connecting Capacity Auxiliary Circuit	Solid 2 x 1 ... 4 mm ² Flexible with Insulated Ferrule 1 x 0.75 ... 2.5 mm ² Stranded 2 x 1 ... 4 mm ² Flexible 1x0.75 ... 2.5 mm ² Flexible with Ferrule 2 x 0.75 ... 2.5 mm ²
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 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
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: C1 5 g Shock Direction: B2 5 g Shock Direction: B1 5 g
RoHS Status	Following EU Directive 2011/65/EU

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 400 A
Horsepower Rating UL/CSA	(208 V AC) Three Phase 100 Hp (440 ... 480 V AC) Three Phase 250 Hp (550 ... 600 V AC) Three Phase 300 Hp (220 ... 240 V AC) Three Phase 100 Hp (200 V AC) Three Phase 100 Hp

Certificates and Declarations (Document Number)

ABS Certificate	15-LD1408622-PDA
BV Certificate	BV_13409-C0BV
CB Certificate	SEMKO_SE-69480
CCC Certificate	CQC_2007010304256681
CCS Certificate	GB14T00030
Declaration of Conformity - CE	2CMT2015-005436
DNV GL Certificate	TAE00001W1
EAC Certificate	9AKK107046A8618
Environmental Information	1SFC101008D0201
GL Certificate	GL_20262-04HH
Instructions and Manuals	1SFC380003-89
LOVAG Certificate	SE-0115200
LR Certificate	16-20064
RINA Certificate	ELE060313XG_002
RMRS Certificate	RMRS_12-03683-315
RoHS Information	2CMT2016-007138

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	200 mm
Package Level 1 Depth / Length	220 mm
Package Level 1 Height	280 mm
Package Level 1 Gross Weight	5.8 kg
Package Level 1 EAN	7320500220344

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
ETIM 7	EC000066 - Power contactor, AC switching
UNSPSC	39121529
E-Number (Norway)	4115283
E-Number (Sweden)	3228326

Categories

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

