



Electric Automation
Automation specialists

Reference: AF1250-30-11
Code: 1SFL647001R6811

AF1250-30-11 24-60V DC Contactor

Buy it at Electric Automation Network



A 3-phase Contactor suitable for various applications such as, Isolation, By-pass and Distribution application up to max 1000 V. Operated with wide control voltage range 22-60 V, DC

Ordering

EAN:	7320500346075
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	210.0 mm
Product Net Depth:	242.0 mm
Product Net Height:	344.0 mm
Product Net Weight:	15.000 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	290 mm
Package Level 1 Length:	270 mm
Package Level 1 Height:	350 mm

Package Level 1 Gross Weight:	15 kg
Package Level 1 EAN:	7320500346075

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
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C}$ 1050 A
Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 1040 A (690 V) 40 °C 1260 A (1000 V) 40 °C 1260 A (1000 V) 55 °C 1040 A (690 V) 70 °C 875 A (1000 V) 70 °C 875 A
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
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 6000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 1600 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 8000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 10000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 4500 A
Maximum Breaking Capacity:	$\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 7500 A $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 7000 A
Maximum Electrical Switching Frequency:	AC-1 300 cycles per hour
Rated Operational Current DC-1 (I_e):	(850 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (220 V) 3 Poles in Series, 40 °C 1250 A
Rated Operational Current DC-3 (I_e):	(850 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (220 V) 3 Poles in Series, 40 °C 1250 A
Rated Operational Current DC-5 (I_e):	(850 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A (220 V) 3 Poles in Series, 40 °C 1250 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:	0.5 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 $\theta \leq 70$ °C) °C
Rated Control Circuit Voltage (U _c):	DC Operation 20 ... 60 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 780 V·A Holding at Max. Rated Control Circuit Voltage DC 5.5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V·A Pull-in at Max. Rated Control Circuit Voltage DC 785 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 780 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V·A
Operate Time:	Between Coil Energization and NO Contact Closing 50 ... 120 ms Between Coil De-energization and NO Contact Opening 53 ... 73 ms Between Coil De-energization and NC Contact Closing 50 ... 70 ms Between Coil Energization and NC Contact Opening 45 ... 115 ms
Connecting Capacity-Main Circuit:	Bar 50 mm
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 1x0.75...2.5 mm ² Flexible with Ferrule 2x0.75...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
Connecting terminals (delivered in open position) Main poles:	M 3.5 (+,-) pozidriv 2 screw with cable clamp
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 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
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General Use Rating UL/CSA:	(600 V AC) 1210 A
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Certificates and Declarations (Document Number)

CB Certificate:	SE-72146
CCC Certificate:	CQC_2006010304213519
Declaration of Conformity - CE:	1SFA1-88
RINA Certificate:	ELE060313XG/002
RoHS Information:	1SFC101055D0202

Classifications

ETIM 5:	EC000066 - Magnet contactor, AC-switching
UNSPSC:	39121529