



Descriptors

Alternate Catalog No. AF1250-30-22-68 Catalog No. 1SFL647001R6822

Description: AF1250-30-22 24-60V DC Contactor

UPC No 7320500346082

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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

Category	AF Contactors
Block Contactor Type	3-Pole Contactor
Specifications	
Product Type	AF
General Use Rating UL/CSA	(600 V AC) 1210 A
Object Classification Code	Q
Terminal Type	Main Circuit: Bars
Rated Control Circuit Voltage	DC Operation 20 60 V
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
Number of Auxiliary Contacts NO	2
RoHS Status	Following EU Directive 2011/65/EU
Reference Ambient Air Temperature	Close to Contactor for Storage -40 +70 °C 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
Rated Operational Voltage	Main Circuit 1000 V
Number of Auxiliary Contacts NC	2
Maximum Operating Altitude Permissible	3000 m
Rated Operational Current AC-1	(1000 V) 40 °C 1260 A (1000 V) 55 °C 1040 A (1000 V) 70 °C 875 A (690 V) 40 °C 1260 A (690 V) 55 °C 1040 A (690 V) 70 °C 875 A
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1	8 x le AC-3
Conventional Free-air Thermal Current	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 1050 A
	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 7200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 150 A

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10 x le AC-3

Rated Short-time Withstand Current

Rated Making Capacity AC-3 acc. to IEC 60947-4-1

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 4000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 8000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 5200 A

Maximum Floatrical Cuitching Fraguency	AC-1 300 cycles per hour
Maximum Electrical Switching Frequency	(220 V) 3 Poles in Series, 40 °C 1250 A
Rated Operational Current DC-5	(600 V) 3 Poles in Series, 40 °C 1250 A
Rated Insulation Voltage	(850 V) 3 Poles in Series, 40 °C 1250 A acc. to UL/CSA 600 V
<u> </u>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 7500 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 7300 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 7000 A
Mechanical Durability	0.5 million
Rated Operational Current DC-3	(220 V) 3 Poles in Series, 40 °C 1250 A (600 V) 3 Poles in Series, 40 °C 1250 A
Nated Operational Current DC-3	(850 V) 3 Poles in Series, 40 °C 1250 A
Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min 1.1 x Uc Max. (at $\theta \le 70$ C)
Maximum Mechanical Switching Frequency	300 cycles per hour
	Between Coil De-energization and NC Contact Closing 50 70 ms
Operate Time	Between Coil De-energization and NO Contact Opening 53 73 ms
	Between Coil Energization and NC Contact Opening 45 115 ms
Secondary Rated Impulse Withstand Voltage	Between Coil Energization and NO Contact Closing 50 120 ms Main Circuit 8 kV
Connecting Capacity Main Circuit	Bar 50 mm
Connecting Capacity Main Circuit	Holding at Max. Rated Control Circuit Voltage 50 Hz 12 V - A
	Holding at Max. Rated Control Circuit Voltage 60 Hz 12 V - A
Coil Consumption	Holding at Max. Rated Control Circuit Voltage DC 5.5 V - A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 780 V - A
	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 780 V - A
Degree of Protection	Pull-in at Max. Rated Control Circuit Voltage DC 785 V - A acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00 Flexible with Insulated Ferrule 1 x 0.75 2.5 m ²
Connecting Capacity Auxiliary Circuit	Flexible 2x0.75 2.5 m ²
	Stranded 2 x 1 4 m ²
Classifications	
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 6.0	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
IDEA Granular Category Code (IGCC)	4755 >> Contactors
ETIM 5.0	EC000066 - Magnet contactor, AC-switching

14.6 kg
242 mm
210 mm
344 mm

Package Information		
Package Level 1 Width	280 mm	
Package Level 1 Height	310 mm	
Package Level 1 Depth / Length	375 mm	
Package Level 1 EAN	7320500346082	
Package Level 1 Units	box 1 piece	
Package Level 1 Gross Weight	16 kg	

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Ordering	
Minimum Order Quantity	1
Customs Tariff Number	85364900

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