



Automatización Eléctrica

Especialistas en Automatización

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AF2050-30-22 100-250V 50/60Hz / 100-250 DC



General Information

Extended Product Type:	AF2050-30-22 100-250V 50/60Hz / 100-250 DC
Product ID:	1SFL707001R7022
EAN:	7320500359105
Catalog Description:	AF2050-30-22 100-250V 50/60Hz / 100-250 DC Contactor
Long Description:	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 100-250 V, AC/DC

Categories

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

Ordering

EAN:	7320500359105
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	438.0 mm
Product Net Depth:	244.0 mm
Product Net Height:	392.0 mm
Product Net Weight:	33.000 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	250 mm
Package Level 1 Length:	440 mm
Package Level 1 Height:	430 mm
Package Level 1 Gross Weight:	38 kg
Package Level 1 EAN:	7320500359105

Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	2
Number of Auxiliary Contacts NC:	2
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 2050 A
Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 1750 A (690 V) 40 °C 2050 A (1000 V) 40 °C 2050 A (1000 V) 55 °C 1750 A (690 V) 70 °C 1500 A (1000 V) 70 °C 1500 A
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 7500 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 2200 A at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 10000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 12000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 5500 A
Maximum Breaking Capacity:	$\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 12000 A
Maximum Electrical Switching Frequency:	AC-1 60 cycles per hour
Rated Operational Current DC-1 (I_e):	(850 V) 3 Poles in Series, 40 °C 2050 A (600 V) 3 Poles in Series, 40 °C 2050 A (220 V) 3 Poles in Series, 40 °C 2050 A
Rated Operational Current DC-3 (I_e):	(850 V) 3 Poles in Series, 40 °C 2050 A (600 V) 3 Poles in Series, 40 °C 2050 A (220 V) 3 Poles in Series, 40 °C 2050 A
Rated Operational Current DC-5 (I_e):	(850 V) 3 Poles in Series, 40 °C 2050 A (600 V) 3 Poles in Series, 40 °C 2050 A

	(220 V) 3 Poles in Series, 40 °C 2050 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 U _c Min. ... 1.1 x U _c Max. (at $\theta \leq 70\text{ °C}$) °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 2450 V·A Holding at Max. Rated Control Circuit Voltage DC 20.5 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 48 V·A Pull-in at Max. Rated Control Circuit Voltage DC 2290 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 2450 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 48 V·A
Operate Time:	Between Coil Energization and NO Contact Closing 50 ... 80 ms Between Coil De-energization and NO Contact Opening 35 ... 55 ms Between Coil De-energization and NC Contact Closing 35 ... 55 ms Between Coil Energization and NC Contact Opening 50 ... 80 ms
Connecting Capacity-Main Circuit:	Bar 100 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
Terminal Type:	Main Circuit: Bars

Environmental

Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U _c) -25...+50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U _c) -40...+70 °C Close to Contactor for Storage -40...+70 °C
Maximum Operating Altitude Permissible:	3000 m
RoHS Status:	No declaration needed

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
General Use Rating UL/CSA:	(600 V AC) 2100 A

Certificates and Declarations (Document Number)

CB Certificate:	SE-69484
CCC Certificate:	CQC_2003010304101933
Declaration of Conformity - CE:	1SFA1-92
RINA Certificate:	ELE060313XG/002
RoHS Information:	1SFC101061D0211

Classifications

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





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Product	Code	Reference	Product link
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