



Alternate Catalog No. AF09Z-40-00-30 Catalog No. 1SBL136201R3000

Description: AF09Z-40-00-30 24VDC Contactor

UPC No 3471523115897

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AF09Z 4-pole contactors are used for controlling power circuits up to 690 V AC and 440 V DC. They are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces...). AF09Z contactors with coil 30 include a 24 V DC electronic coil interface with a built-in surge suppression, obtaining a reduced holding coil consumption up to 1.7 W for a low panel energy consumption and a direct control by PLC-output \geq 250 mA 24 V DC, without need of additional interface relay. Only AF..Z..-30 contactors need to respect the polarity on the coil terminals (A1+ and A2-). The AF... series 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 4 N.O. main poles, front and side-mounted add-on auxiliary contact blocks. (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1. N.C. mirror contacts compliant with Annex F of IEC 60947-4-1) - Accessories: a wide range of accessories is available.

Descriptors	
Category	AF Contactors
Block Contactor Type	4-Pole Contactor

Specifications	
Product Type	AF
General Use Rating UL/CSA	(600 V AC) 25 A
Object Classification Code	Q
Terminal Type	Screw Terminals
Rated Control Circuit Voltage	DC Operation 24 V
Number of Main Contacts NO	4
Number of Main Contacts NC	0
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position
Number of Auxiliary Contacts NO	0
RoHS Status	Following EU Directive 2011/65/EU
Reference Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 +70 °C
Number of Auxiliary Contacts NC	0
Maximum Operating Altitude Permissible	3000 m
Rated Operational Current AC-1	(690 V) 40 °C 25 A (690 V) 60 °C 25 A (690 V) 70 °C 22 A
Rated Operational Power AC-3	(220 / 230 / 240 V) 2.2 KWT (380 / 400 V) 4 KWT (415 V) 4 KWT (440 V) 4 KWT (500 V) 5.5 KWT (690 V) 5.5 KWT
Conventional Free-air Thermal Current	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 35 A
Rated Frequency	Main Circuit 50Hz Main Circuit 60 Hz

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Specifications	
Rated Short-time Withstand Current	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 35 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 60 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 300 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 80 A for 1 s - A
Rated Operational Current AC-3	(220 / 230 / 240 V) 60 °C 9 A (380 / 400 V) 60 °C 9 A (415 V) 60 °C 9 A (440 V) 60 °C 9 A (500 V) 60 °C 9.5 A (690 V) 60 °C 7 A
Maximum Electrical Switching Frequency	AC-1 600 cycles per hour
Rated Insulation Voltage	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 250 A
Maximum Mechanical Switching Frequency	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 106 A 3600 cycles per hour
Operate Time	Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil De-energization and NO Contact Opening 17 29 ms Between Coil Energization and NC Contact Opening 20 35 ms Between Coil Energization and NO Contact Closing 27 53 ms
Secondary Rated Impulse Withstand Voltage	6 kV
Connecting Capacity Main Circuit	Rigid 1/2x 1 6 m ² Flexible with Ferrule 1/2x 0.75 6 m ² Flexible with Insulated Ferrule 1x 0.75 4 m ² /2x 0.75 2.5 m ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 2.5 m ² Flexible with Insulated Ferrule 1x 0.75 2.5 m ² /2x 0.75 1.5 m ² Rigid 1/2x 1 2.5 m 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 IP20
Wire Stripping Length	Control Circuit 10 mm Main Circuit 10 mm
Classifications	
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 6.0	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 5.0	EC000066 - Magnet contactor, AC-switching
Dimensions	
Product Net Weight	0.43 kg
Product Net Depth / Length	97 mm
Product Net Width	45 mm
Product Net Height	86 mm
Package Information	
Package Level 1 Width	96 mm

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50 mm

112 mm

114 mm

0.475 kg

576 piece

box 1 piece

box 12 piece

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Package Level 1 Height

Package Level 1 EAN

Package Level 1 Units

Package Level 2 Units

Package Level 3 Units

Package Level 2 Height

Package Level 1 Depth / Length

Package Level 1 Gross Weight

Package Information		
Package Level 2 Depth / Length	98 mm	
Package Level 2 Gross Weight	5.7 kg	
Ordering		
Minimum Order Quantity	1	
Customs Tariff Number	85364900	

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