



Representative Image

Alternate Catalog No. AF38Z-30-00K-23 Catalog No. 1SBL296005R2300

Description: AF38Z-30-00K-23 100-250V50/60HZ-DC Contactor

UPC No 3471523156838

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AF38Z..K 3-pole contactors are used for controlling power circuits up to 690 V AC and 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. AF..Z contactors include an electronic coil interface accepting a wide control voltage U_c min. ... U_c max. Only four coils cover control voltages between 24...250 V 50/60 Hz or 12...250 V DC. AF..Z contactors can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. AF..Z contactors allow direct control by PLC-output ≥ 24 V DC 500 mA and obtain a reduced holding coil consumption. AF..Z contactors withstand short voltage dips and voltage sags (SEMI F47-0706 compliance) between 24...250 V 50/60 Hz. AF..Z contactors have built-in surge protection and do not require additional surge suppressors. AF38Z..K include Push-in Spring terminals. Only one push is all you need for extremely fast wiring: faster than ever installation, easier than ever wiring, reliable as ever connections. The AF... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 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	3-Pole Contactor

Specifications

Product Type	AF
General Use Rating UL/CSA	(600 V AC) 45 A
Object Classification Code	Q
Terminal Type	Push-in Spring Terminals
Rated Control Circuit Voltage	50 Hz /60 Hz DC Operation 100 ... 250 V
Number of Main Contacts NO	3
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 Close to Contactor without Thermal O/L Relay -40 ... +70 °C Close to Contactor Fitted with Thermal O/L Relay -25 ... +60 °C
Rated Operational Voltage	Main Circuit 690 V
Number of Auxiliary Contacts NC	0
Maximum Operating Altitude Permissible	3000 m
Rated Operational Current AC-1	(690 V) 40 °C 50 A (690 V) 60 °C 42 A (690 V) 70 °C 37 A
Rated Operational Power AC-3	(220 / 230 / 240 V) 11 KWT (380 / 400 V) 18.5 KWT (415 V) 18.5 KWT (440 V) 22 KWT (500 V) 22 KWT (690 V) 22 KWT

Specifications

Horsepower Rating UL/CSA	(220 ... 240 V AC) Three Phase 10 hp (440 ... 480 V AC) Three Phase 25 hp (550 ... 600 V AC) Three Phase 30 hp (120 V AC) Single Phase 2 hp (200 ... 208 V AC) Three Phase 10 hp (240 V AC) Single Phase 5 hp
Conventional Free-air Thermal Current	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ }^{\circ}\text{C}$ 50 A
Rated Frequency	Main Circuit 50Hz Main Circuit 60 Hz
Rated Short-time Withstand Current	at $40\text{ }^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 10 s 350 A at $40\text{ }^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 15 min 50 A at $40\text{ }^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 min 150 A at $40\text{ }^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 1 s 700 A at $40\text{ }^{\circ}\text{C}$ Ambient Temp, in Free Air, from a Cold State 30 s 225 A for 1 s - A
Rated Operational Current AC-3	(220 / 230 / 240 V) $60\text{ }^{\circ}\text{C}$ 40 A (380 / 400 V) $60\text{ }^{\circ}\text{C}$ 38 A (415 V) $60\text{ }^{\circ}\text{C}$ 38 A (440 V) $60\text{ }^{\circ}\text{C}$ 38 A (500 V) $60\text{ }^{\circ}\text{C}$ 33 A (690 V) $60\text{ }^{\circ}\text{C}$ 24 A
Maximum Electrical Switching Frequency	AC-1 600 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 1200 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 $I_e > 100\text{ A}$) at 440 V 500 A $\cos\phi=0.45$ ($\cos\phi=0.35$ for $I_e > 100\text{ A}$) at 690 V 200 A
Maximum Mechanical Switching Frequency	3600 cycles per hour
Operate Time	Between Coil De-energization and NC Contact Closing 13 ... 98 ms Between Coil De-energization and NO Contact Opening 11 ... 95 ms Between Coil Energization and NC Contact Opening 38 ... 90 ms Between Coil Energization and NO Contact Closing 40 ... 95 ms
Secondary Rated Impulse Withstand Voltage	6 kV
Connecting Capacity Main Circuit	Flexible 1/2x 1 ... 6 m ² Rigid 1/2x 1 ... 10 m ² Flexible with Ferrule 1/2x 1 ... 6 m ² Flexible with Insulated Ferrule 1/2x 1 ... 6 m ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.5 ... 2.5 m ² Flexible with Insulated Ferrule 1/2x 0.5 ... 1.5 m ² Flexible 1/2x 0.5 ... 2.5 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
Screw Terminal Type	Push-in Spring Terminals
Wire Stripping Length	Control Circuit 10 mm Main Circuit 14 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	0.36 kg
Product Net Depth / Length	86 mm
Product Net Width	45 mm
Product Net Height	92.3 mm

Package Information

Package Level 1 Width	93 mm
Package Level 1 Height	45 mm
Package Level 1 Depth / Length	86 mm
Package Level 1 EAN	3471523156838
Package Level 1 Units	box 1 piece
Package Level 2 Width	250 mm
Package Level 2 Height	315 mm
Package Level 1 Gross Weight	0.375 kg
Package Level 2 Units	box 21 piece
Package Level 3 Units	1080 piece
Package Level 2 Depth / Length	300 mm
Package Level 2 Gross Weight	16.875 kg

Ordering

Minimum Order Quantity	1
Customs Tariff Number	85364900