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PRODUCT-DETAILS

AF12Z-30-01K-30

AF12Z-30-01K-30 24VDC Contactor



General Information	
Extended Product Type	AF12Z-30-01K-30
Product ID	1SBL156005R3001
EAN	3471523155992
Catalog Description	AF12Z-30-01K-30 24VDC Contactor
Long Description	AF12ZK 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. AF12ZK 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 ≥ 250 mA 24 V DC, without need of additional interface relay.Only AFZ30 contactors need to respect the polarity on the coil terminals (A1+ and A2-). AF12ZK 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, 1 built-in auxiliary contact, 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.

Ordering

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Minimum Order Quantity1 pieceCustoms Tariff Number85364900

Popular Downloads	
Instructions and	1CPC1010E4MG00
Manuals	1SBC101054M680
CAD Dimensional	2CDC001079B020
Drawing	
Dimensions	
Product Net Width	45 mn
Product Net Depth / Length	97 mn
Product Net Height	92.3 mm
Product Net Weight	0.435 kg
Technical	
Number of Main Contacts NO	
Number of Main Contacts NC	
Number of Auxiliary Contacts NO	
Number of Auxiliary Contacts NC	
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 No. 60947-4-
Rated Operational Voltage	Auxiliary Circuit 690 \ Main Circuit 690 \
Rated Frequency (f)	Auxiliary Circuit 50 / 60 H: Main Circuit 50 / 60 H:
Rated Operational	(1000 V) 60 °C 28 A
Current AC-1 (I _e)	(690 V) 40 °C 28 A (690 V) 70 °C 24 A
Rated Operational	(415 V) 60 °C 12 A
Current AC-3 (I _e)	(440 V) 60 °C 12.5 (500 V) 60 °C 12.5 (
	(690 V) 60 °C 9 A
	(380 / 400 V) 60 °C 12 ⁄ (220 / 230 / 240 V) 60 °C 12 ⁄
Rated Operational	(415 V) 60 °C 12 ∕
Current AC-3e (I _e)	(440 V) 60 °C 12 /
	(500 V) 60 °C 12.5 A (690 V) 60 °C 9 A
	(380 / 400 V) 60 °C 12 A
	(220 / 230 / 240 V) 60 °C 12 /
Rated Operational Power AC-3 (P _e)	(415 V) 5.5 kV (440 V) 5.5 kV
AC-3 (Pe)	(500 V) 7.5 kV
	(690 V) 7.5 kV
	(380 / 400 V) 5.5 kW (220 / 230 / 240 V) 3 kW
Rated Operational Power	(415 V) 5.5 kV
AC-3e (P _e)	(440 V) 5.5 kV
	(500 V) 7.5 kV (690 V) 7.5 kV
	(380 / 400 V) 5.5 kV
	(220 / 230 / 240 V) 3 kW

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Rated Operational	(500 V) 2 A
Current AC-15 (I _e)	(690 V) 2 A
	(24 / 127 V) 6 A
	(220 / 240 V) 4 A
	(400 / 440 V) 3 A
Rated Short-time Withstand Current Low	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
Voltage (I _{cw})	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 0.1 s 140 A
	for 1 s 100 A
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Rated Operational	(110 V) 1-Pole, 40 °C 15 A
Current DC-1 (I _e)	(110 V) 1-Pole, 60 °C 15 A (110 V) 1-Pole, 70 °C 15 A
	(110 V) 2 Poles in Series, 40 °C 27 A
	(110 V) 2 Poles in Series, 60 °C 27 A
	(110 V) 2 Poles in Series, 70 °C 24 A
	(110 V) 3 Poles in Series, 40 °C 27 A (110 V) 3 Poles in Series, 60 °C 27 A
	(110 V) 3 Poles in Series, 70 °C 24 A
	(220 V) 2 Poles in Series, 40 °C 15 A
	(220 V) 2 Poles in Series, 60 °C 15 A
	(220 V) 2 Poles in Series, 70 °C 15 A
	(220 V) 3 Poles in Series, 40 °C 27 A (220 V) 3 Poles in Series, 60 °C 27 A
	(220 V) 3 Poles in Series, 70 °C 24 A
	(72 V) 1-Pole, 40 °C 27 A
	(72 V) 1-Pole, 60 °C 27 A
	(72 V) 1-Pole, 70 °C 24 A (72 V) 2 Poles in Series, 40 °C 27 A
	(72 V) 2 Poles in Series, 60 °C 27 A
	(72 V) 2 Poles in Series, 70 °C 24 A
	(72 V) 3 Poles in Series, 40 °C 27 A
	(72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 70 °C 24 A
Rated Operational	(110 V) 1-Pole, 40 °C 7 A
Current DC-3 (I _e)	(110 V) 1-Pole, 60 °C 7 A
	(110 V) 1-Pole, 70 °C 7 A
	(110 V) 2 Poles in Series, 40 °C 27 A
	(110 V) 2 Poles in Series, 60 °C 27 A (110 V) 2 Poles in Series, 70 °C 24 A
	(110 V) 3 Poles in Series, 40 °C 27 A
	(110 V) 3 Poles in Series, 60 °C 27 A
	(110 V) 3 Poles in Series, 70 °C 24 A
	(220 V) 2 Poles in Series, 40 °C 7 A (220 V) 2 Poles in Series, 60 °C 7 A
	(220 V) 2 Poles in Series, 70 °C 7 A
	(220 V) 3 Poles in Series, 40 °C 27 A
	(220 V) 3 Poles in Series, 60 °C 27 A
	(220 V) 3 Poles in Series, 70 °C 24 A (72 V) 1-Pole, 40 °C 27 A
	(72 V) 1-Pole, 60 °C 27 A
	(72 V) 1-Pole, 70 °C 24 A
	(72 V) 2 Poles in Series, 40 °C 27 A
	(72 V) 2 Poles in Series, 60 °C 27 A (72 V) 2 Poles in Series, 70 °C 24 A
	(72 V) 3 Poles in Series, 40 °C 27 A
	(72 V) 3 Poles in Series, 60 °C 27 A
	(72 V) 3 Poles in Series, 70 °C 24 A
Rated Operational	(110 V) 1-Pole, 40 °C 4 A
Current DC-5 (I _e)	(110 V) 1-Pole, 60 °C 4 A (110 V) 1-Pole, 70 °C 4 A
	(110 V) 2 Poles in Series, 40 °C 15 A
	(110 V) 2 Poles in Series, 60 °C 15 A
	(110 V) 2 Poles in Series, 70 °C 15 A
	(110 V) 3 Poles in Series, 40 °C 27 A (110 V) 3 Poles in Series, 60 °C 27 A
	(IIO V) 3 FOIES III SELIES, OU CZI A

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Rated Operational Current DC-13 (le) Current DC-13		(110 V) 3 Poles in Series, 70 °C 24 A (220 V) 2 Poles in Series, 40 °C 4 A (220 V) 2 Poles in Series, 60 °C 4 A (220 V) 2 Poles in Series, 70 °C 4 A (220 V) 3 Poles in Series, 40 °C 12 A (220 V) 3 Poles in Series, 60 °C 12 A (220 V) 3 Poles in Series, 70 °C 12 A (72 V) 1-Pole, 40 °C 12 A (72 V) 1-Pole, 60 °C 12 A (72 V) 1-Pole, 70 °C 12 A (72 V) 2 Poles in Series, 40 °C 27 A (72 V) 2 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 70 °C 24 A (72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 60 °C 27 A (72 V) 3 Poles in Series, 60 °C 27 A
Current DC-13 (le) (4817) 2.8 A, 1/34 W (721 V) 1.7 / 72 W (110 V) 0.55 A, 6 low (120 V) 0.57 A, 6 low (120 V) 0.57 A, 6 low (220 V) 0.27 A, 6 low (220 V) 0.2 A, 6	Rated Operational	(24 V) 6 A / 144 W
Rated Insulation Voltage (Ui) acc. to IEC 60947-41 690 V acc. to IEC 60947-51 690 V acc. to IEC 60947-51 690 V acc. to IEC 60947-51 690 V acc. to UL/CSA 600 V Rated Impulse Withstand Voltage (Ulimp) Maximum Mechanical Switching Frequency Average Holding Value Dc.17 W Voltage (Uc) Coil Consumption Average Holding Value Dc.17 W Voltage (Uc) Coil Consumption Average Holding Value Dc.17 W Average Pull-in Value, from Coil State 6 W Operate Time Between Coil De-energization and NC contact Opening 2 C 57 ms Between Coil De-energization and NC contact Opening 2 C 57 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 17 29 ms Between Coil Energization and NC contact Opening 20 35 ms Between Coil Energization and NC contact Opening 20 35 ms Between Coil Energization and NC contact Opening 20 35 ms Between Coil Energization and NC contact Opening 20 35 ms Between Coil Energization and NC contact Opening 20 35 ms Flexible with Insulated Ferrule 2x 0.5 4 mm Flexible with Insulated Ferrule 2x 0.5 2.5 mm Rigid Solid 1/2x 1 2.5 mm	·	(48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W
CU1) Concerting Capacity Connecting Ca		
Rated Impulse Withstand Voltage (Uimp) Maximum Mechanical Switching Frequency Rated Control Circuit Voltage (U.c) Coil Consumption Average Holding Value DC 1.7 W Average Pull-in Value, from Cold State 6 W Operate Time Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil Energization and NC Contact Closing 22 57 ms Between Coil Energization and NC Contact Opening 17 29 ms Between Coil Energization and NC Contact Closing 22 53 ms Between Coil Energization and NC Contact Closing 22 53 ms Between Coil Energization and NC Contact Opening 17 29 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Between Coil Energization and NC Contact Closing 27 53 ms Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm³ Rigid Solid 1/2x 1 2.5 mm³ Rigid Solid 1/2x 1 2.5 mm³ Rigid Solid 1/2x 1 2.5 mm³ Rigid Solid 1/2x 1 2.5 mm³ Rigid Solid Solid Solid I/2x 1 2.5 mm³ Rigid Solid So		
Withstand Voltage (Uimp) Maximum Mechanical 3600 cycles per hour Switching Frequency Rated Control Circuit DC Operation 24 V Voltage (Uc) Coil Consumption Average Holding Value DC 1.7 W Average Pull-in Value, from Cold State 6 W Average Pull-in Value, from Cold State 6 W Average Pull-in Value, from Cold State 6 W Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil De-energization and NC Contact Opening 17 29 ms Between Coil Energization and NC Contact Opening 18 25 ms Between Coil Energization and NC Contact Opening 18 25 ms Between Coil Energization and NC Contact Openin	(U _i)	
Maximum Mechanical Switching Frequency Rated Control Circuit Voltage (Uc) Coil Consumption Average Holding Value DC 1.7 W Average Pull-in Value, from Cold State 6 W Operate Time Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil Energization and NC Contact Opening 17 29 ms Between Coil Energization and NC Contact Opening 27 35 ms Between Coil Energization and NC Contact Opening 27 35 ms Between Coil Energization and NC Contact Opening 27 35 ms Between Coil Energization and NC Contact Opening 27 35 ms Between Coil Energization and NC Contact Opening 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 35 ms Between Coil Energization and NC Contact Closing 27 4 mm² Flexible Lyax 0.5 2.5 mm² Rigid Solid Lyax 1	•	6 kV
Switching Frequency Rated Control Circuit Old Consumption Coil Consumption Average Holding Value DC 1.7 W Average Pull-in Value, from Cold State 6 W Operate Time Between Coil De-energization and NC Contact Closing 22 57 ms Between Coil De-energization and NC Contact Copening 17 29 ms Between Coil De-energization and NC Contact Copening 17 29 ms Between Coil Energization and NC Contact Copening 17 29 ms Between Coil Energization and NC Contact Copening 20 35 ms Between Coil Energization and NC Contact Copening 20 35 ms Between Coil Energization and NC Contact Copening 20 35 ms Between Coil Energization and NC Contact Copening 20 35 ms Between Coil Energization and NC Contact Copening 20 35 ms Between Coil Energization and NC Contact Closing 27 53 ms Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Mounting by Screws (not 2 x M4 screws placed diagonally supplied) Connecting Capacity Flexible with Ferrule 1/2x 0.5 4 mm² Flexible with Insulated Ferrule 1/2x 0.5 4 mm² Flexible with Insulated Ferrule 1/2x 0.5 4 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1)	
Voltage (Uc) Coil Consumption Average Holding Value DC 1.7 W Average Pull-in Value, from Cold State 6 W 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 NO Contact Opening 17 29 ms Between Coil Energization and NO Contact Clopening 20 35 ms Between Coil Energization and NO Contact Closing 27 53 ms Between Coil Energization and NO Contact Closing 27 53 ms Between Coil Energization and NO Contact Closing 27 53 ms Between Coil Energization and NO Contact Closing 27 53 ms Between Coil Energization and NO Contact Closing 27 53 ms Between Coil Energization and NO Contact Closing 27 53 ms Between Coil Energization and NO Contact Closing 27 35 ms Rounting by Screws (not 2 x M4 screws placed diagonally supplied) Connecting Capacity Flexible with Ferrule 1/2 x 0.5 4 mm² Flexible with Insulated Ferrule 1/2 x 0.5 4 mm² Rigid Solid 1/2x 1 25		3600 cycles per hour
Average Pull-in Value, from Cold State 6 W 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 NO Contact Opening 27 35 ms Between Coil Energization and NO Contact Closing 27 53 ms Mounting on DIN Rail Mounting on DIN Rail TH35-15 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Mounting Descrives (not supplied) Connecting Capacity Flexible with Ferrule 1/2x 0.5 4 mm² Flexible with Insulated Ferrule 1/2x 0.5 4 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Solid 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5		DC Operation 24 V
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 NC Contact Opening 20 35 ms Between Coil Energization and NO Contact Opening 20 35 ms Mounting on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 Mounting by Screws (not 2 x M4 screws placed diagonally supplied) Connecting Capacity Flexible with Ferrule 1/2x 0.5 4 mm² Flexible with Insulated Ferrule 1/2x 0.5 4 mm² Flexible with Insulated Ferrule 2x 0.5 2.5 mm² Flexible with Insulated Ferrule 2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Solid 1/2x 4 6 mm² Connecting Capacity Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.	Coil Consumption	
Mounting by Screws (not supplied) Connecting Capacity Flexible with Ferrule 1/2x 0.5 4 mm² Main Circuit Flexible with Insulated Ferrule 1x 0.5 4 mm² Flexible with Insulated Ferrule 2x 0.5 2.5 mm² Flexible with Insulated Ferrule 2x 0.5 2.5 mm² Flexible 1/2x 0.5 4 mm² Flexible with Insulated Ferrule 2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Strianded 1/2x 4 6 mm² Auxiliary Circuit Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible 1/2x 0.5 2.5 mm² Flexible 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible 1	Operate Time	Between Coil De-energization and NO Contact Opening 17 29 ms Between Coil Energization and NC Contact Opening 20 35 ms
supplied) Connecting Capacity Main Circuit Flexible with Insulated Ferrule 1,2x 0.5 4 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Stranded 1,2x 4 6 mm² Connecting Capacity Auxiliary Circuit Flexible with Insulated Ferrule 1,2x 0.5 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1,2x 0.5 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Connecting Capacity Control Circuit Flexible with Ferrule 1,2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1,2x 0.5 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1,2x 0.5 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Rigid Solid 1,2x 1 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Rigid Solid 1,2x 1 2.5 mm² Rigid Solid 1,2x 1 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Rigid Solid 1,2x 1 2.5 mm² Rigid Solid 1,2x 1 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Rigid Solid 1,2x 1 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Rigid Solid 1,2x 1 2.5 mm² Flexible 1,2x 0.5 2.5 mm² Rigid Solid 1,2x 1 2.5 m	Mounting on DIN Rail	` ,
Main Circuit Flexible with Insulated Ferrule 1x 0.5 4 mm² Flexible with Insulated Ferrule 2x 0.5 2.5 mm² Flexible 1/2x 0.5 4 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Stranded 1/2x 4 6 mm² Rigid Stranded 1/2x 4 6 mm² Flexible with Ferrule 1/2x 0.5 2.5 mm² Rigid Stranded 1/2x 4 6 mm² Flexible with Ferrule 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 2.5 mm² Flexible 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5		2 x M4 screws placed diagonally
Auxiliary Circuit Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm² Flexible 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Connecting Capacity Control Circuit Flexible with Ferrule 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm² Flexible 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Wire Stripping Length Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20	9 , ,	Flexible with Insulated Ferrule 1x 0.5 4 mm² Flexible with Insulated Ferrule 2x 0.5 2.5 mm² Flexible 1/2x 0.5 4 mm² Rigid Solid 1/2x 1 2.5 mm²
Control Circuit Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm² Flexible 1/2x 0.5 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Rigid Solid 1/2x 1 2.5 mm² Wire Stripping Length Auxiliary Circuit 10 mm Control Circuit 10 mm Main Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20		Flexible with Insulated Ferrule $1/2x$ $0.5 \dots 1.5$ mm ² Flexible $1/2x$ $0.5 \dots 2.5$ mm ²
Control Circuit 10 mm Main Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20		Flexible with Ferrule 1/2x 0.5 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.5 1.5 mm² Flexible 1/2x 0.5 2.5 mm²
Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 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
Terminal Type Push-in Spring Terminals	Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
	Terminal Type	Push-in Spring Terminals

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Technical UL/CSA	
NEMA Size	0
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 28 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 1 hp (200 208 V AC) Three Phase 3 hp (220 240 V AC) Three Phase 3 hp (240 V AC) Single Phase 2 hp (440 480 V AC) Three Phase 7-1/2 hp (550 600 V AC) Three Phase 10 hp
Connecting Capacity Main Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG Rigid Stranded 1/2x 18-10 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG
Connecting Capacity Control Circuit UL/CSA	Rigid Solid 1/2x 18-14 AWG

Environmental	
Ambient Air Temperature	Close to Contactor without Thermal O/L Relay -40 70 °C Close to Contactor for Storage -60 +80 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Vibrations	4g Closed Position & 2g Open position 5 300 Hz

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations		
CB Certificate		CB_SE-108879
CCC Certificate		CCC_2010010304445624
CQC Certificate		CQC2010010304445624 CQC2020010304298240
Declaration of		2020980304001253
Conformity - CCC		2020980304001082
Declaration of Conformity - CE		1SBD250000U1000
Declaration of Conformity - UKCA		1SBD250031U1000
DNV Certificate		DNV_TAE00001AF-4
LR Certificate		LRS_LR23403517TA-02
RMRS Certificate		RMRS_1802705280
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 UL Certificate
 UL-US-2150887-5

 UL-CA-2142658-5
 UL-CA-2142658-5

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	96 mm
Package Level 1 Depth / Length	112 mm
Package Level 1 Height	50 mm
Package Level 1 Gross Weight	0.467 kg
Package Level 1 EAN	3471523155992
Package Level 2 Units	crate 12 piece
Package Level 2 Width	245 mm
Package Level 2 Depth / Length	245 mm
Package Level 2 Height	153 mm
Package Level 2 Gross Weight	5.6 kg

Classifications	
Object Classification Code	Q
ETIM 4	EC000066 - Magnet contactor, AC-switching
ETIM 5	EC000066 - Magnet contactor, AC-switching
ETIM 6	EC000066 - Power contactor, AC switching
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371018
UNSPSC	39121529

Categories

 $Low\ Voltage\ Products\ and\ Systems \rightarrow Control\ Products \rightarrow Contactors \rightarrow Block\ Contactors \rightarrow AF\ Contactors \rightarrow AF12$

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