

PRODUCT-DETAILS

AS16-30-01-23M

AS16-30-01-23M 110V50/60HZ Contactor



General Information Extended Product Type	AS16-30-01-23M
Product ID	1SBL121001M2301
EAN	3471523049239
Catalog Description	AS16-30-01-23M 110V50/60HZ Contactor
Long Description	AS16 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC or 220 V DC. They are mainly used for controlling 3-phase motors, non-inductive or slightly inductive loads. The AS 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-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) - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

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
UNSPSC	39121529

Container Information

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Package Level 1 Units	40 piece
Package Level 1 Width	293 mm
Package Level 1 Depth / Length	167 mm
Package Level 1 Height	250 mm
Package Level 1 Gross Weight	8.8 kg
Package Level 1 EAN	3471523049239
Package Level 3 Units	960 piece

Certificates and Declarations (Document	Number)
CB Certificate	CB_CN13475-M1
CCC Certificate	CCC_2007010309251577
Declaration of Conformity - CE	1SBD250014U1000
Environmental Information	1SBD250154E1000
GOST Certificate	GOST_POCCCNME77B07822.pdf
Instructions and Manuals	1SBC101020M9701
RoHS Information	1SBD251000E1001
UL Certificate	UL_20120917-E312527-1-1
UL Listing Card	UL_E312527

Technical UL/CSA	
General Use Rating UL/CSA	(600 V AC) 20 A
Horsepower Rating	(120 V AC) Single Phase 3/4 Hp
UL/CSA	(240 V AC) Single Phase 2 Hp
	(200 208 V AC) Three Phase 3 Hp
	(220 240 V AC) Three Phase 5 Hp
	(440 480 V AC) Three Phase 10 Hp
	(550 600 V AC) Three Phase 10 Hp
Tightening Torque	Auxiliary Circuit 9 in lb
UL/CSA	Control Circuit 9 in lb
	Main Circuit 9 in lb

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Close to Contactor Fitted with Thermal O/L Relay -25 +60 °C Close to Contactor without Thermal O/L Relay -40 +70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 3 g Closed position / 2 g Open position
Resistance to Shock acc.	Closed, Shock Direction: B1 10 g
to IEC 60068-2-27	Closed, Shock Direction: C1 20 g
	Closed, Shock Direction: C2 20 g
	Open, Shock Direction: B1 5 g
	Open, Shock Direction: C1 9 g
	Open, Shock Direction: C2 14 g
	Shock Direction: A 20 g
	Shock Direction: B2 15 g

Technical

Number of Main

Contacts NO Number of Main	C
Contacts NC	
Number of Auxiliary Contacts NO	C
Number of Auxiliary Contacts NC	1
Standards	IEC 60947-1 / 60947-4-1 and EN 60947-1 / 60947-4-1, UL 508, CSA C22.2 N 14
Rated Operational Voltage	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 25 A acc. to IEC 60947-5-1, q = 40 °C 10 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 24 A (690 V) 60 °C 20 A (690 V) 70 °C 16 A
Rated Operational Current AC-3 (I _e)	(220 / 230 / 240 V) 60 °C 15.7 A (380 / 400 V) 60 °C 15.5 A (415 V) 60 °C 15.5 A (440 V) 60 °C 13.6 A (500 V) 60 °C 12.5 A (690 V) 60 °C 9 A
Rated Operational Power AC-3 (P _e)	(220 / 230 / 240 V) 4 kW (400 V) 7.5 kW (415 V) 7.5 kW (440 V) 7.5 kW (500 V) 7.5 kW (690 V) 7.5 kW
Rated Operational Current AC-15 (I _e)	(220 / 240 V) 4 A (24 / 127 V) 6 A (400 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Rated Short-time Withstand Current (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 124 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 24 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 55 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 75 A for 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for le > 100 A) at 440 V 155 A cos phi=0.45 (cos phi=0.35 for le > 100 A) at 690 V 90 A
Maximum Electrical Switching Frequency	AC-1 600 cycles per hour AC-15 1200 cycles per hour AC-2 / AC-4 300 cycles per hour AC-3 1200 cycles per hour DC-13 900 cycles per hour
Rated Operational Current DC-13 (I _e)	(110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (125 V) 0.55 A / 69 W (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W
Rated Insulation Voltage (U _i)	acc. to UL/CSA 600 V acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 690 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 110 V 60 Hz 110 V
Operate Time	Between Coil De-energization and NC Contact Closing 7 22 ms Between Coil De-energization and NO Contact Opening 5 19 ms Between Coil Energization and NC Contact Opening 6 18 ms

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Terminal Type	
Dimensions	
	45 mm
Dimensions Product Net Width Product Net Depth /	
Dimensions Product Net Width Product Net Depth / Length	72.5 mm
Dimensions Product Net Width Product Net Depth / Length Product Net Height	72.5 mm
Dimensions Product Net Width Product Net Depth / Length	45 mm 72.5 mm 68 mm 0.22 kg
Dimensions Product Net Width Product Net Depth / Length Product Net Height	72.5 mm
Dimensions Product Net Width Product Net Depth / Length Product Net Height Product Net Weight	72.5 mm

Categories

Customs Tariff Number

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$

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