



Electric Automation
Automation specialists

Reference: UA16-30-10
Code: 1SBL181022R8110

UA16-30-10 24V 50Hz / 24V 60Hz
Contactor

Buy it at Electric Automation Network



UA16 3-pole contactors for capacitor switching, can be used for the switching of capacitor banks whose inrush current peaks are less than or equal to 100 times nominal rms current. The table below gives the permissible powers according to operational voltage and temperature close to the contactor. It also specifies the maximum peak current \hat{I} values accepted by the contactor. The capacitors must be discharged (maximum residual voltage at terminals ≤ 50 V) before being re-energized when the contactors are making. In these conditions, electrical durability of contactors is equal to 100 000 operating cycles. The UA.. series 3-pole contactors are of the block type design. - Main poles and auxiliary contacts: 3 main poles, 1 built-in auxiliary contact - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

Ordering

EAN:	3471522254818
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85369085

Dimensions

Product Net Width:	44 mm
Product Net Depth:	74 mm
Product Net Height:	74 mm
Product Net Weight:	0.340 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	78 mm
Package Level 1 Length:	76 mm
Package Level 1 Height:	47 mm
Package Level 1 Gross Weight:	0.34 kg
Package Level 1 EAN:	3471522254818
Package Level 2 Units:	63 piece
Package Level 3 Units:	1220 piece

Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	1
Number of Auxiliary Contacts NC:	0
Rated Operational Voltage:	Main Circuit 690 V
Rated Frequency (f):	Supply Circuit 50 Hz Supply Circuit 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-5-1, $\theta = 40\text{ °C}$ 16 A
Rated Operational Current AC-15 (I_e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 1.5 ... 1.8 A
Rated Short-time Withstand Current (I_{cw}):	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 140 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 30 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 0.1 s 140 A for 1 s 100 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for $I_e > 100\text{ A}$) at 690 V 90 A
Rated Operational Current DC-13 (I_e):	(125 V) 1.1 / 138 A (24 V) 6 / 144 A (250 V) 0.55 / 138 A (48 V) 2.8 / 134 A (72 V) 2 / 144 A

Rated Insulation Voltage (U _i):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U _{imp}):	8 kV
Mechanical Durability:	10 million
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Coil Operating Limits:	(acc. to IEC 60947-4-1)0.85 ... 1.1 x U _c (at θ ≤ 55 °C) °C
Rated Control Circuit Voltage (U _c):	50 Hz 24 V 60 Hz 24 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 50 Hz 70 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 80 V·A Average Holding Value 50 / 60 Hz 8 V·A Average Holding Value 50 / 60 Hz 2 W Average Pull-in Value 50 Hz 74 V·A Average Pull-in Value 60 Hz 70 V·A
Operate Time:	Between Coil Energization and NO Contact Closing 10 ... 26 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms
Connecting Capacity-Main Circuit:	Flexible with Cable End0.75 ... 2.5 mm ² Rigid Cable1 ... 4 mm ²
Connecting Capacity-Auxiliary Circuit:	Flexible with Cable End0.75 ... 2.5 mm ² Rigid Cable1 ... 4 mm ²
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Connecting terminals (delivered in open position) Main poles:	M 3.5 (+,-) pozidriv 2 screws with cable clamp
Terminal Type:	Screw Terminals

Environmental

Ambient Air Temperature:	Near Contactor for Operation in Free Air (0.85 ... 1.1 U _c) -40 ... +55 °C Near Contactor for Operation in Free Air (U _c) -40 ... +70 °C Close to Contactor for Storage -60 ... +80 °C
Climatic Withstand:	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible:	3000 m
RoHS Status:	No declaration needed

Certificates and Declarations (Document Number)

CB Certificate:	CB_FR2880_60002378
CCC Certificate:	CCC_2003010304060097
Declaration of Conformity - CE:	1SBD250820C2000
EAC Certificate:	EAC_RU C-FR ME77 B01010
GOST Certificate:	GOST_POCCFRME77B07175

RoHS Information:	1SBC101059D0201
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Classifications

ETIM 5:	EC001079 - Capacitor magnet contactor
UNSPSC:	39121529