

PRODUCT-DETAILS

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

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



General Information

Extended Product Type	UA16-30-10 24V 50Hz / 24V 60Hz
Product ID	1SBL181022R8110
EAN	347152254818
Catalog Description	UA16-30-10 24V 50Hz / 24V 60Hz Contactor

Long Description	<p>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.</p> <p>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.</p>
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Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC101140C0203
Instructions and Manuals	FPTC407721P0001
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	44 mm
Product Net Depth / Length	74 mm
Product Net Height	74 mm
Product Net Weight	0.34 kg

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
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1
Rated Operational Voltage	Auxiliary Circuit 690 V Main Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I_{th})	acc. to IEC 60947-5-1, $\Theta = 40\text{ °C}$ 16 A
Rated Operational Power AC-6b (P_e)	(230 / 240 V) 40 °C, 50 / 60 Hz 7.5 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 6.7 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 6 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 12.5 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 10 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 11.7 kvar (440 V) 40 °C, 50 / 60 Hz 13.7 kvar (440 V) 55 °C, 50 / 60 Hz 13 kvar (440 V) 70 °C, 50 / 60 Hz 11 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 15.5 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 14.7 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 12.5 kvar (690 V) 40 °C, 50 / 60 Hz 21.5 kvar (690 V) 55 °C, 50 / 60 Hz 20 kvar (690 V) 70 °C, 50 / 60 Hz 17 kvar
Rated Operational Current AC-15 (I_e)	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 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 Low	for 0.1 s 140 A for 1 s 100 A

Voltage (I_{cw})

Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 250 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 90 A
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Rated Operational Current DC-13 (I_e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 2 / 144 W (110 V) 1.1 A / 121 W (125 V) 1.1 / 138 W (220 V) 0.55 A / 121 W (250 V) 0.55 / 138 W
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Rated Insulation Voltage (U_i)	acc. to IEC 60947-4-1 1000 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
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Rated Impulse Withstand Voltage (U_{imp})	8 kV
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Mechanical Durability	10 million
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Maximum Mechanical Switching Frequency	3600 cycles per hour
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Rated Control Circuit Voltage (U_c)	50 Hz 24 V 60 Hz 24 V
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Coil Consumption	Average Holding Value 50 / 60 Hz 8 V·A Average Pull-in Value 50 Hz 74 V·A Average Pull-in Value 60 Hz 70 V·A 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
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Operate Time	Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NO Contact Closing 10 ... 26 ms
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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
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Mounting by Screws (not supplied)	2 x M4 screws placed diagonally
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Connecting Capacity Main Circuit	Flexible with Cable End 1/2x 0.75 ... 2.5 mm ² Rigid Solid 1/2x 1 ... 4 mm ²
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Connecting Capacity Auxiliary Circuit	Flexible with Cable End 1/2x 0.75 ... 2.5 mm ² Rigid Solid 1/2x 1 ... 4 mm ²
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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
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Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screws with cable clamp
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Terminal Type	Screw Terminals
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Technical UL/CSA

Connecting Capacity Main Circuit UL/CSA	1/2x 18-10 AWG
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Tightening Torque UL/CSA	Auxiliary Circuit 9 in-lb Control Circuit 9 in-lb Main Circuit 9 in-lb
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Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C 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
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Climatic Withstand	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
Maximum Operating Altitude Permissible	Without Derating 3000 m
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations

CB Certificate	CB_CN-58852
CCC Certificate	CCC_2018010304059153 CCC_2007010304257961
CQC Certificate	CQC2018010304059153 CQC2007010304257961
Declaration of Conformity - CCC	2020980304001618 2020980304001218
Declaration of Conformity - CE	1SBD250805U1000
Declaration of Conformity - UKCA	1SBD250822U1000
GOST Certificate	GOST_POCCFRME77B07175
UL Certificate	UL-US-L312527-1102-51017991-2 UL-CA-L312527-4102-51017991-2
UL Listing Card	UL_E312527

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	78 mm
Package Level 1 Depth / 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	box 63 piece
Package Level 2 Width	300 mm
Package Level 2 Depth / Length	245 mm
Package Level 2 Height	308 mm
Package Level 2 Gross Weight	21.42 kg
Package Level 3 Units	1220 piece

Classifications

Object Classification Code	Q
ETIM 4	EC001079 - Capacitor magnet contactor
ETIM 5	EC001079 - Capacitor magnet contactor
ETIM 6	EC001079 - Capacitor contactor
ETIM 7	EC001079 - Capacitor contactor
ETIM 8	EC001079 - Capacitor contactor

eClass

V11.0 : 27371006

UNSPSC

39121529

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → UA and UA..RA Contactors

