



PRODUCT-DETAILS

UA16-30-10 110V 50Hz / 110-120V 60Hz
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Contactor



General Information

Extended Product Type	UA16-30-10 110V 50Hz / 110-120V 60Hz
Product ID	1SBL181022R8410
EAN	3471522254849
Catalog Description	UA16-30-10 110V 50Hz / 110-120V 60Hz Contactor

Long Description

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 I_p 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

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, $\Theta = 40\text{ }^{\circ}\text{C}$ 16 A
Rated Operational Power AC-6b (P_e)	(230 / 240 V) 40 $^{\circ}\text{C}$, 50 / 60 Hz 7.5 kvar (230 / 240 V) 55 $^{\circ}\text{C}$, 50 / 60 Hz 6.7 kvar (230 / 240 V) 70 $^{\circ}\text{C}$, 50 / 60 Hz 6 kvar (400 / 415 V) 40 $^{\circ}\text{C}$, 50 / 60 Hz 12.5 kvar (400 / 415 V) 70 $^{\circ}\text{C}$, 50 / 60 Hz 10 kvar (400 / 415 V) 55 $^{\circ}\text{C}$, 50 / 60 Hz 11.7 kvar (440 V) 40 $^{\circ}\text{C}$, 50 / 60 Hz 13.7 kvar (440 V) 55 $^{\circ}\text{C}$, 50 / 60 Hz 13 kvar (440 V) 70 $^{\circ}\text{C}$, 50 / 60 Hz 11 kvar (500 / 550 V), 40 $^{\circ}\text{C}$, 50 / 60 Hz 15.5 kvar (500 / 550 V) 55 $^{\circ}\text{C}$, 50 / 60 Hz 14.7 kvar (500 / 550 V) 70 $^{\circ}\text{C}$, 50 / 60 Hz 12.5 kvar (690 V) 40 $^{\circ}\text{C}$, 50 / 60 Hz 21.5 kvar (690 V) 55 $^{\circ}\text{C}$, 50 / 60 Hz 20 kvar (690 V) 70 $^{\circ}\text{C}$, 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 Voltage (I_{cw})	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)	(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

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
Rated Impulse Withstand Voltage (U _{imp})	8 kV
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U _c)	50 Hz 110 V 60 Hz 110 ... 120 V
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
Operate Time	Between Coil De-energization and NO Contact Opening 4 ... 11 ms Between Coil Energization and NO Contact Closing 10 ... 26 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 supplied)	2 x M4 screws placed diagonally
Connecting Capacity Main Circuit	Flexible with Cable End 1/2x 0.75 ... 2.5 mm ² Rigid Solid 1/2x 1 ... 4 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Cable End 1/2x 0.75 ... 2.5 mm ² Rigid Solid 1/2x 1 ... 4 mm ²
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
Connecting Terminals (delivered in open position) Main Poles	M 3.5 (+,-) pozidriv 2 screws with cable clamp
Terminal Type	Screw Terminals

Technical UL/CSA

Connecting Capacity Main Circuit UL/CSA	1/2x 18-10 AWG
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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
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

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU
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_CN-58852
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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	3471522254849
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 → UA16

