



**Electric Automation**  
Automation specialists

Reference: UA50-30-00  
Code: 1SBL351022R2900

UA50-30-00 120V 50Hz / 140V 60Hz  
Contactor

Buy it at Electric Automation Network



UA50 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  $\leq 50$  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: 3 main poles - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available.

### Ordering

EAN:	3471522084293
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85369085

### Dimensions

Product Net Width:	70 mm
Product Net Depth:	108 mm
Product Net Height:	110 mm
Product Net Weight:	1.160 kg

## Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	140 mm
Package Level 1 Length:	146 mm
Package Level 1 Height:	96 mm
Package Level 1 Gross Weight:	1.16 kg
Package Level 1 EAN:	3471522084293
Package Level 2 Units:	20 piece
Package Level 3 Units:	160 piece

## Technical

Number of Main Contacts NO:	3
Number of Main Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Auxiliary Contacts NC:	0
Rated Operational Voltage:	Main Circuit 690 V
Short-Circuit Protective Devices:	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 650 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 630 A
Rated Insulation Voltage ( $U_i$ ):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 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 $\theta \leq 55$ °C) °C
Rated Control Circuit Voltage ( $U_c$ ):	50 Hz 120 V 60 Hz 140 V

Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 18 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 W Holding at Max. Rated Control Circuit Voltage 50 Hz 18 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 W Average Holding Value 50 / 60 Hz 18 V·A Average Holding Value 50 / 60 Hz 5.5 W Average Pull-in Value 50 Hz 180 V·A Average Pull-in Value 60 Hz 210 V·A
Operate Time:	Between Coil Energization and NO Contact Closing 8 ... 27 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms
Connecting Capacity-Main Circuit:	Flexible with Cable End6 ... 16 mm <sup>2</sup> Rigid Cable6 ... 25 mm <sup>2</sup>
Connecting Capacity-Auxiliary Circuit:	Flexible with Cable End0.75 ... 2.5 mm <sup>2</sup> Rigid Cable1 ... 4 mm <sup>2</sup>
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Connecting terminals (delivered in open position) Main poles:	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
Terminal Type:	Screw Terminals

## Environmental

Ambient Air Temperature:	Near Contactor for Operation in Free Air (0.85 ... 1.1 Uc) -40 ... +55 °C Near Contactor for Operation in Free Air (Uc) -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:	Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1

## Certificates and Declarations (Document Number)

CB Certificate:	CB_FR2880_60002378
CCC Certificate:	CCC_2003010304060093
CSA Certificate:	CSA_1033838_LR056745
cUL Certificate:	UL_071301E39231
Declaration of Conformity - CE:	1SBD250809C2000
EAC Certificate:	EAC_RU C-FR ME77 B01010

GOST Certificate:	GOST_POCCFRME77B07175
RoHS Information:	1SBD350079R1000
UL Certificate:	UL_071301E39231
UL Listing Card:	UL_E39231

## Classifications

ETIM 5:	EC001079 - Capacitor magnet contactor
UNSPSC:	39121529