

# UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz



Products Low Voltage Products and Systems Control Products Contactors Block Contactors

## General Information

<b>Extended Product Type:</b>	UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz
<b>Product ID:</b>	1SBL351024R8000
<b>EAN:</b>	3471522303806
<b>Catalog Description:</b>	UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz Contactor
<b>Long Description:</b>	UA50..RA 3-pole contactors for capacitor switching, can be used in installations in which the peak current far exceeds 100 times nominal rms current. The contactors are delivered complete with their damping resistors and must be used without additional inductances (see table below). The capacitors must be discharged (maximum residual voltage at terminals $\leq 50$ V) before being re-energized when the contactors are making. Their electrical durability is 250 000 operating cycles for $U_e < 500$ V and 100 000 operating cycles for $500 \text{ V} \leq U_e \leq 690$ V. The UA..RA contactors are fitted with a special front mounted block, which ensures the serial insertion of 3 damping resistors into the circuit to limit the current peak on energization of the capacitor bank. Their connection also ensures capacitor precharging in order to limit the second current peak occurring upon making of the main poles. The insertion of resistors allows to damp the highest current peak of the capacitor when switching on, whatever its level. The UA..RA 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.

## Additional Information

<b>ABB Industrial IT Suite:</b>	Control IT
<b>Ambient Air Temperature:</b>	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
<b>CB Certificate:</b>	CB_FR3449_60016915-509739D
<b>CCC Certificate:</b>	CCC_2004010304138318
<b>CSA Certificate:</b>	CSA_1033838_LR056745
<b>Climatic Withstand:</b>	acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II
<b>Coil Consumption:</b>	Average Holding Value 50 / 60 Hz 18 V·A Average Holding Value 50 / 60 Hz 5.5 W Average Holding Value 50 Hz 18 V·A Average Holding Value 50 Hz 5.5 W Average Holding Value 60 Hz 18 V·A Average Holding Value 60 Hz 5.5 W Average Pull-in Value 50 Hz 180 V·A Average Pull-in Value 60 Hz 210 V·A
<b>Coil Operating Limits:</b>	(acc. to IEC 60947-4-1) 0.85 ... 1.1 x $U_c$ (at $\theta \leq 55$ °C) °C
<b>Coil Voltage Code:</b>	80
<b>Connecting Capacity Auxiliary Circuit:</b>	Rigid Cable 1 ... 4 mm <sup>2</sup> Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup>
<b>Connecting Capacity Main Circuit:</b>	Rigid Cable 6 ... 16 mm <sup>2</sup> Flexible with Cable End 6 ... 10 mm <sup>2</sup>
<b>Connecting terminals (delivered in open position) Coils terminals:</b>	M 3.5 (+,-) pozidriv 2 screws with cable clamp
<b>Connecting terminals (delivered in open position) Main poles:</b>	M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector
<b>Country of Origin:</b>	France (FR)
<b>Customs Tariff Number:</b>	85364900
<b>Data Sheet, Technical Information:</b>	1SBC101140C0203
<b>Declaration of Conformity - CE:</b>	1SBD250805U1000

Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20
Dimension Diagram:	FPTE307844
Drop-out Voltage in % of Uc:	Approximate 40 ... 65 %
EAC Certificate:	EAC_RU C-FR ME77 B01010
EAN:	3471522303806
ETIM 4:	EC001079 - Capacitor magnet contactor
ETIM 5:	EC001079 - Capacitor magnet contactor
ETIM 6:	EC001079 - Capacitor contactor
Electrical Durability:	Ue =< 440 V 250000 cycle Ue = 500 ... 690 V 100000 cycle
Environmental Information:	1SBD250124E1000
GOST Certificate:	GOST_POCCFRME77B07175
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	1SBC101002M5501
Invoice Description:	UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz Contactor
Maximum Breaking Capacity:	cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 1300 A cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 630 A
Maximum Electrical Switching Frequency:	240 cycles per hour
Maximum Operating Altitude Permissible:	3000 m
Maximum Peak Current:	Ue = 500 V For Capacitor Switching Î No limit kV·A
Minimum Order Quantity:	1 piece
Mounted Auxiliary Contacts 1st Stack:	0 NO, 0 NC
Mounted Auxiliary Contacts 2nd Stack:	0 NO, 0 NC
Mounting Position:	Position 1 to 5 -Ambient temperature =<55°C and control voltage 0.85 - 1.1 Uc, Ambient temperature 55 - 70°C and control voltage equal to Uc
Number of Auxiliary Contacts NC:	0
Number of Auxiliary Contacts NO:	0
Number of Main Contacts NC:	0
Number of Main Contacts NO:	3
Object Classification Code:	Q
Operate Time:	Between Coil Energization and NO Contact Closing 8 ... 27 ms Between Coil De-energization and NO Contact Opening 4 ... 11 ms
Order Multiple:	1 piece
Package Level 1 EAN:	3471522303806
Package Level 1 Gross Weight:	1.35 kg
Package Level 1 Height:	85 mm
Package Level 1 Length:	200 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	160 mm
Package Level 2 Units:	63 piece
Packing Type:	Box
Product Main Type:	UA50RA
Product Name:	Block Contactor
Product Net Depth:	140.4 mm
Product Net Height:	150 mm
Product Net Weight:	1.350 kg
Product Net Width:	70 mm
Product Packing Type:	Box
Rated Control Circuit Voltage (Uc):	50 Hz 220 ... 230 V

60 Hz 230 ... 240 V

<b>Rated Frequency Limits:</b>	25 ... 400 Hz
<b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>	8 kV
<b>Rated Insulation Voltage (<math>U_i</math>):</b>	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to UL/CSA 600 V
<b>Rated Operational Power AC-6b (<math>P_o</math>):</b>	(690 V) 70 °C, 50 / 60 Hz 60 kvar (690 V) 55 °C, 50 / 60 Hz 65 kvar (690 V) 40 °C, 50 / 60 Hz 72 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 46 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 50 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 55 kvar (440 V) 70 °C, 50 / 60 Hz 37 kvar (440 V) 55 °C, 50 / 60 Hz 43 kvar (440 V) 40 °C, 50 / 60 Hz 50 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 35 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 40 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 40 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 20 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 24 kvar (230 / 240 V) 40 °C, 50 / 60 Hz 25 kvar
<b>Rated Operational Voltage:</b>	Main Circuit 690 V
<b>Rated Short-time Withstand Current (<math>I_{cw}</math>):</b>	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
<b>RoHS Information:</b>	1SBC101059D0201
<b>RoHS Status:</b>	No declaration needed
<b>Selling Unit of Measure:</b>	piece
<b>Short Description:</b>	UA50-30-00RA 220-230V 50Hz / 230-240V 60Hz Contactor
<b>Short-Circuit Protective Devices:</b>	gG Type Fuses 200 A
<b>Terminal Type:</b>	Screw Terminals
<b>UL Certificate:</b>	UL_20120830-E312527-10-1
<b>UL Listing Card:</b>	UL_E312527
<b>UNSPSC:</b>	39121529



