

UA110-30-00RA-80



Products → Low Voltage Products and Systems → Control Products → Contactors → Block Contactors

General Information

Extended Product Type:	UA110-30-00RA-80
Product ID:	1SFL451024R8000
EAN:	7320500260524
Catalog Description:	UA110-30-00RA 220-230V 50Hz Contactor
Long Description:	A 3-phase Contactor suitable for Capacitor switching application. Maximum permissible peak current 100 times the nominal RMS current. Operated with a control voltage, versions from 24V to 690 V

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC100122C0202
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Dimensions

Product Net Width:	90.0 mm
Product Net Depth:	155.6 mm
Product Net Height:	170.0 mm
Product Net Weight:	2.000 kg

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 1000 V
Rated Frequency (f):	Main Circuit 50 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $\theta = 40\text{ °C}$ 160 A
Rated Operational Current AC-1 (I_e):	(690 V) 55 °C 145 A (690 V) 40 °C 160 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 (I_e):	(1000 V) 55 °C 30 A (415 V) 55 °C 110 A (220 / 230 / 240 V) 55 °C 110 A (690 V) 55 °C 82 A (440 V) 55 °C 100 A (380 / 400 V) 55 °C 110 A (500 V) 55 °C 100 A
Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1:	8 x I_e AC-3
Rated Making Capacity AC-3 acc. to IEC 60947-4-1:	10 x I_e AC-3
Maximum Breaking Capacity:	$\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100\text{ A}$) at 440 V 1160 A $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100\text{ A}$) at 690 V 800 A
Maximum Electrical Switching Frequency:	AC-3 300 cycles per hour AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour
Rated Insulation Voltage (U_i):	acc. to UL/CSA 600 V IEC 60947-4-1: 1000 V, 1000 V, 1000 V, 1000 V

	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V
Rated Impulse Withstand Voltage (U_{imp}):	Main Circuit 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 x U _c Min. ... 1.1 x U _c Max. (at $\theta \leq 70\text{ }^{\circ}\text{C}$) $^{\circ}\text{C}$
Rated Control Circuit Voltage (U_c):	60 Hz 230 ... 240 V 50 Hz 220 ... 230 V
Coil Consumption:	Pull-in at Max. Rated Control Circuit Voltage 60 Hz 450 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 26 V·A
Operate Time:	Between Coil De-energization and NC Contact Closing 7 ... 15 ms Between Coil Energization and NO Contact Closing 10 ... 25 ms
Connecting Capacity Main Circuit:	Flexible with Cable End 1 x 10 ... 70 mm ² Bar 30 mm ² Rigid 2 x 6 ... 65 mm ²
Connecting Capacity Auxiliary Circuit:	Solid 2 x 1 ... 4 mm ² Flexible with Insulated Ferrule 2 x 0.75 ... 2.5 mm ² Stranded 1 x 1 ... 4 mm ² Flexible 2x0.75 ... 2.5 mm ² Flexible with Ferrule 2 x 0.75 ... 2.5 mm ²
Degree of Protection:	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
Connecting terminals (delivered in open position) Main poles:	M8 hexagon socket screw with single connector
Terminal Type:	Cable Clamp

Environmental

Ambient Air Temperature:	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 U _c) -25 ... +50 $^{\circ}\text{C}$ Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 U _c) -40 ... +70 $^{\circ}\text{C}$ Close to Contactor for Storage -60 ... +80 $^{\circ}\text{C}$
Maximum Operating Altitude Permissible:	3000 m
Resistance to Shock acc. to IEC 60068-2-27:	Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: A 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: A 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: B1 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C2 20 g Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 g Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 g
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V
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Certificates and Declarations (Document Number)

CB Certificate:	SE-72477
CCC Certificate:	CQC_2003010304088242
Declaration of Conformity - CE:	1SFA1-78
Environmental Information:	1SFC101001D0201
Instructions and Manuals:	5309660-60
RoHS Information:	1SFC101046D0203

Container Information

Package Level 1 Units:	1 piece
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Package Level 1 Width:	140 mm
Package Level 1 Length:	140 mm
Package Level 1 Height:	170 mm
Package Level 1 Gross Weight:	2 kg
Package Level 1 EAN:	7320500260524

Classifications

Object Classification Code:	Q
ETIM 4:	EC001079 - Capacitor magnet contactor
ETIM 5:	EC001079 - Capacitor magnet contactor
ETIM 6:	EC001079 - Capacitor contactor
UNSPSC:	39121529

