



PRODUCT-DETAILS

UA110-30-00RA-80

UA110-30-00RA 220-230V 50Hz Contactor



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 ac to 690 V

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	5309660-60
CAD Dimensional	2CDC001079B0201

Drawing

Dimensions

Product Net Width	90 mm
Product Net Depth / Length	155.6 mm
Product Net Height	170 mm
Product Net Weight	1.8 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
Number of Poles	3P
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) 40 °C 160 A (690 V) 55 °C 145 A (690 V) 60 °C 145 A (690 V) 70 °C 130 A
Rated Operational Current AC-3 (I_e)	(415 V) 55 °C 110 A (440 V) 55 °C 100 A (500 V) 55 °C 100 A (690 V) 55 °C 82 A (1000 V) 55 °C 30 A (380 / 400 V) 55 °C 110 A (220 / 230 / 240 V) 55 °C 110 A
Rated Operational Power AC-6b (P_e)	(230 / 240 V) 40 °C, 50 / 60 Hz 45 kvar (230 / 240 V) 55 °C, 50 / 60 Hz 40 kvar (230 / 240 V) 70 °C, 50 / 60 Hz 35 kvar (400 / 415 V) 40 °C, 50 / 60 Hz 80 kvar (400 / 415 V) 70 °C, 50 / 60 Hz 60 kvar (400 / 415 V) 55 °C, 50 / 60 Hz 70 kvar (440 V) 40 °C, 50 / 60 Hz 85 kvar (440 V) 55 °C, 50 / 60 Hz 75 kvar (440 V) 70 °C, 50 / 60 Hz 70 kvar (500 / 550 V), 40 °C, 50 / 60 Hz 95 kvar (500 / 550 V) 55 °C, 50 / 60 Hz 82 kvar (500 / 550 V) 70 °C, 50 / 60 Hz 78 kvar (690 V) 40 °C, 50 / 60 Hz 130 kvar (690 V) 55 °C, 50 / 60 Hz 110 kvar (690 V) 70 °C, 50 / 60 Hz 100 kvar
Rated Breaking Capacity AC-3	8 x I_e AC-3
Rated Making Capacity AC-3	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
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})	Main Circuit 8 kV
Maximum Electrical Switching Frequency	(AC-1) 300 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
Mechanical Durability	10 million
Maximum Mechanical Switching Frequency	3600 cycles per hour

Coil Operating Limits	(acc. to IEC 60947-4-1) 0.85 x Uc Min. ... 1.1 x Uc Max. (at $\theta \leq 70\text{ }^{\circ}\text{C}$)
Rated Control Circuit Voltage (U _c)	50 Hz 220 ... 230 V 60 Hz 230 ... 240 V
Coil Consumption	Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 26 V·A Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 450 V·A
Power Loss	at Rated Operating Conditions per Pole 7.5 W
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	Bar 30 mm ² Flexible with Cable End 1 x 10 ... 70 mm ² Rigid 2 x 6 ... 65 mm ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm ² Flexible 2x0.75 ... 2.5 mm ² Solid 2 x 1 ... 4 mm ² Stranded 1 x 1 4 mm ²
Connecting Capacity	Bar 30 mm ² Flexible with Cable End 2 x 6 ... 35 mm ² Rigid 1 x 10 ... 95 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
Tightening Torque	Main Circuit 8 N·m
Terminal Type	Cable Clamp
Product Name	Block Contactor

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
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Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C Close to Contactor for Storage -60 ... +80 °C
Maximum Operating Altitude Permissible	Without Derating 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, 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, Closed, 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, 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, Open, Shock Direction: C2 20 g

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
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REACH Declaration	2CMT2021-006202
RoHS Information	2CMT2021-006277
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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_CN64637
cULus Certificate	20160916- E36588
Declaration of Conformity - CE	2CMT2015-005436
Declaration of Conformity - UKCA	2CMT2020-006118

Container Information

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

External Classifications and Standards

Object Classification Code	Q
ETIM 7	EC001079 - Capacitor contactor
ETIM 8	EC001079 - Capacitor contactor
ETIM 9	EC001079 - Capacitor contactor
eClass	V11.0 : 27371006
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4756 >> Capacitor magnet contactor
E-Number (Finland)	3709348

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → UA and UA..RA Contactors → UA110RA

