



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 to 690 V

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
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4755 >> Contactors

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

Certificates and Declarations (Document Number)

CB Certificate	SE-72477
CCC Certificate	CQC_2003010304088242
cULus Certificate	20160916- E36588
Declaration of Conformity - CE	2CMT2015-005436
Environmental Information	1SFC101001D0201
Instructions and Manuals	5309660-60
RoHS Information	2CMT2015-005436

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V
----------------------------------	--------------------

Environmental

Ambient Air Temperature	Close to Contactor for Storage -60 ... +80 °C 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
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 K40 Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: A 20 K40 Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: B1 15 K40 Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 K40 Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 K40 Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 K40 Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 K40 Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C2 20 K40
RoHS Status	Following EU Directive 2011/65/EU

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 $q = 40^\circ\text{C}$ 160 A
Rated Operational Current AC-1 (I_e)	(690 V) 40°C 160 A (690 V) 55°C 145 A (690 V) 70°C 130 A
Rated Operational Current AC-3 (I_e)	(1000 V) 55°C 30 A (220 / 230 / 240 V) 55°C 110 A (380 / 400 V) 55°C 110 A (415 V) 55°C 110 A (440 V) 55°C 100 A (500 V) 55°C 100 A (690 V) 55°C 82 A
Rated Operational Power AC-6b (P_e)	(230 / 240 V) 40°C , 50 / 60 Hz 45 KVR (230 / 240 V) 55°C , 50 / 60 Hz 40 KVR (230 / 240 V) 70°C , 50 / 60 Hz 35 KVR (400 / 415 V) 40°C , 50 / 60 Hz 80 KVR (400 / 415 V) 70°C , 50 / 60 Hz 60 KVR (400 / 415 V) 55°C , 50 / 60 Hz 70 KVR (440 V) 40°C , 50 / 60 Hz 85 KVR (440 V) 55°C , 50 / 60 Hz 75 KVR (440 V) 70°C , 50 / 60 Hz 70 KVR (500 / 550 V), 40°C , 50 / 60 Hz 95 KVR (500 / 550 V) 55°C , 50 / 60 Hz 82 KVR (500 / 550 V) 70°C , 50 / 60 Hz 78 KVR (690 V) 40°C , 50 / 60 Hz 130 KVR (690 V) 55°C , 50 / 60 Hz 110 KVR (690 V) 70°C , 50 / 60 Hz 100 KVR
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 $I_e > 100$ A) at 440 V 1160 A $\cos \phi = 0.45$ ($\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 800 A
Maximum Electrical Switching Frequency	AC-1 300 cycles per hour AC-2 / AC-4 150 cycles per hour AC-3 300 cycles per hour
Rated Insulation Voltage (U_i)	acc. to UL/CSA 600 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 $\theta \leq 70^\circ\text{C}$)
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

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 m ² Flexible with Cable End 1 x 10 ... 70 m ² Rigid 2 x 6 ... 65 m ²
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 2x 0.75 ... 2.5 Flexible with Insulated Ferrule 2x 0.75 ... 2.5 Flexible 2x0.75 ... 2.5 m ² Solid 2 x 1 ... 4 m ² Stranded 1 x 1 ... 4 m 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

Dimensions

Product Net Width	90 mm
Product Net Depth / Length	155.6 mm
Product Net Height	170 mm
Product Net Weight	1.8 kg

Popular Downloads

Data Sheet, Technical Information	1SBC100192C0206
Instructions and Manuals	5309660-60

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

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