



---

PRODUCT-DETAILS

# UA110-30-00RA-86

## UA110-30-00RA 400-415V 50Hz Contactor

---

### General Information

Extended Product Type	UA110-30-00RA-86
Product ID	1SFL451024R8600
EAN	7320500260876
Catalog Description	UA110-30-00RA 400-415V 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	7320500260876

---

### 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, Closed, Shock Direction: C2 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 <sub>th</sub> )	acc. to IEC 60947-4-1, Open Contactors q = 40 °C 160 A
Rated Operational Current AC-1 (I <sub>e</sub> )	(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 $\theta \leq 70$ °C)
Rated Control Circuit Voltage ( $U_c$ )	50 Hz 400 ... 415 V 60 Hz 415 ... 440 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 <sup>2</sup> Flexible with Cable End 2 x 6 ... 35 m <sup>2</sup> Rigid 2 x 6 ... 65 m <sup>2</sup>
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 <sup>2</sup> Solid 2 x 1 ... 4 m <sup>2</sup> Stranded 2 x 1 ... 4 m <sup>2</sup>
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)	M8 hexagon socket screw with single connector

position) Main Poles

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