PRODUCT-DETAILS

# UA110-30-00RA-85

# UA110-30-00RA 380-400V 50Hz Contactor

## General Information

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|---|---|
| Extended Product Type | UA110-30-00RA-85 |
| Product ID | 1SFL451024R8500 |
| EAN | 7320500260562 |
| Catalog Description | UA110-30-00RA 380-400V 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 24â€¦â€¦.690 V |

## Classifications

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| 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

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| 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 | 7320500260562 |

## Certificates and Declarations (Document Number)

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|---|---|
| CB Certificate | SE-72477 |

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| 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

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

## Environmental

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| Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C<br>Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... +50 °C<br>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<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: A 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: B1 15 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C1 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock Direction: C2 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B1 5 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: B2 15 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock Direction: C1 20 K40<br>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

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| 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 °C 160 A |
| Rated Operational Current AC-1 ($I_e$) | (690 V) 40 °C 160 A<br>(690 V) 55 °C 145 A |

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| | (690 V) 70 °C 130 A |
| Rated Operational Current AC-3 ($I_e$) | (1000 V) 55 °C 30 A<br>(220 / 230 / 240 V) 55 °C 110 A<br>(380 / 400 V) 55 °C 110 A<br>(415 V) 55 °C 110 A<br>(440 V) 55 °C 100 A<br>(500 V) 55 °C 100 A<br>(690 V) 55 °C 82 A |
| Rated Operational Power AC-6b ($P_e$) | (230 / 240 V) 40 °C, 50 / 60 Hz 45 KVR<br>(230 / 240 V) 55 °C, 50 / 60 Hz 40 KVR<br>(230 / 240 V) 70 °C, 50 / 60 Hz 35 KVR<br>(400 / 415 V) 40 °C, 50 / 60 Hz 80 KVR<br>(400 / 415 V) 70 °C, 50 / 60 Hz 60 KVR<br>(400 / 415 V) 55 °C, 50 / 60 Hz 70 KVR<br>(440 V) 40 °C, 50 / 60 Hz 85 KVR<br>(440 V) 55 °C, 50 / 60 Hz 75 KVR<br>(440 V) 70 °C, 50 / 60 Hz 70 KVR<br>(500 / 550 V), 40 °C, 50 / 60 Hz 95 KVR<br>(500 / 550 V) 55 °C, 50 / 60 Hz 82 KVR<br>(500 / 550 V) 70 °C, 50 / 60 Hz 78 KVR<br>(690 V) 40 °C, 50 / 60 Hz 130 KVR<br>(690 V) 55 °C, 50 / 60 Hz 110 KVR<br>(690 V) 70 °C, 50 / 60 Hz 100 KVR |
| Rated Breaking Capacity AC-3 acc. to IEC 60947-4-1 | 8 x Ie AC-3 |
| Rated Making Capacity AC-3 acc. to IEC 60947-4-1 | 10 x Ie AC-3 |
| Maximum Breaking Capacity | cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 440 V 1160 A<br>cos phi=0.45 (cos phi=0.35 for Ie > 100 A) at 690 V 800 A |
| Maximum Electrical Switching Frequency | AC-1 300 cycles per hour<br>AC-2 / AC-4 150 cycles per hour<br>AC-3 300 cycles per hour |
| Rated Insulation Voltage ($U_i$) | acc. to UL/CSA 600 V<br>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 Uc Min. ... 1.1 x Uc Max. (at θ ≤ 70 °C) |
| Rated Control Circuit Voltage ($U_c$) | 50 Hz 380 ... 400 V<br>60 Hz 400 ... 415 V |
| Coil Consumption | Holding at Max. Rated Control Circuit Voltage 50 Hz 22 V·A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 26 V·A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 350 V·A<br>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<br>Between Coil Energization and NO Contact Closing 10 ... 25 ms |
| Connecting Capacity Main Circuit | Bar 30 m²<br>Flexible with Cable End 2 x 6 ... 35 m²<br>Rigid 1 x 10 ... 95 m² |
| Connecting Capacity Auxiliary Circuit | Flexible with Ferrule 2x 0.75 ... 2.5<br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5<br>Flexible 2x0.75 ... 2.5 m²<br>Solid 2 x 1 ... 4 m²<br>Stranded 2 x 1 .... 4 m² |
| Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20<br>acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10 |
| Connecting Terminals (delivered in open | M8 hexagon socket screw with single connector |

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| position) Main Poles | |
| Terminal Type | Cable Clamp |

## Dimensions

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| 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

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

## Ordering

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| 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