

## PRODUCT-DETAILS

# A63-30-11 110V 50Hz / 110-120V 60Hz

## A63-30-11 110V 50Hz / 110-120V 60Hz

### Contactors



#### General Information

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | A63-30-11 110V 50Hz / 110-120V 60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product ID            | 1SBL371001R8411                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EAN                   | 3471522088840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Catalog Description   | A63-30-11 110V 50Hz / 110-120V 60Hz Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Long Description      | A63 contactors are mainly used for controlling 3-phase motors and generally for controlling power circuits up to 690 V AC / 1000 V AC or 220 V DC. The contactors can also be used for many other applications such as isolation, capacitor switching, lighting. The A... series 1-stack 3-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 3 main poles and 2 built-in auxiliary contacts, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available. |

#### Classifications

|                            |                                           |
|----------------------------|-------------------------------------------|
| Object Classification Code | Q                                         |
| ETIM 4                     | EC000066 - Magnet contactor, AC-switching |
| ETIM 5                     | EC000066 - Magnet contactor, AC-switching |
| ETIM 6                     | EC000066 - Power contactor, AC switching  |
| ETIM 7                     | EC000066 - Power contactor, AC switching  |
| UNSPSC                     | 39121529                                  |

#### Container Information

|                       |         |
|-----------------------|---------|
| Package Level 1 Units | 1 piece |
|-----------------------|---------|

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 140 mm        |
| Package Level 1 Depth / Length | 146 mm        |
| Package Level 1 Height         | 96 mm         |
| Package Level 1 Gross Weight   | 1.2 kg        |
| Package Level 1 EAN            | 3471522088840 |
| Package Level 2 Units          | box 63 piece  |
| Package Level 2 Width          | 503 mm        |
| Package Level 2 Depth / Length | 153 mm        |
| Package Level 2 Height         | 307 mm        |
| Package Level 2 Gross Weight   | 75.6 kg       |
| Package Level 3 Units          | 160 piece     |

## Certificates and Declarations (Document Number)

|                                |                                              |
|--------------------------------|----------------------------------------------|
| ASEFA Certificate              | ASEFA_05403BT                                |
| BV Certificate                 | BV_2634H07559E0                              |
| CB Certificate                 | CB_CN45324                                   |
| CCC Certificate                | CCC_2018010304129267<br>CCC_2008010309289461 |
| CSA Certificate                | CSA_1033838_LR056745                         |
| Declaration of Conformity - CE | 1SBD250801U1000                              |
| DNV Certificate                | DNV-GL_TAE00000TX                            |
| DNV GL Certificate             | DNV-GL_TAE00000TX                            |
| EAC Certificate                | EAC_RU C-FR ME77 B01010                      |
| Environmental Information      | 1SBD250009E1003                              |
| GOST Certificate               | GOST_POCCFRME77B07175                        |
| Instructions and Manuals       | FPTC407700P0003                              |
| LOVAG Certificate              | LOVAG_FR03031                                |
| LR Certificate                 | LRS_9830011E4                                |
| RINA Certificate               | RINA_ELE128713XG001                          |
| RMRS Certificate               | RMRS_0507015250                              |
| RoHS Information               | 1SBD250801U1000                              |
| UL Certificate                 | UL_20120830-E312527-10-1                     |
| UL Listing Card                | UL_E312527                                   |

## Environmental

|                                        |                                                                                                                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                | Close to Contactor for Storage -60 ... +80 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... +55 °C<br>Close to Contactor Fitted with Thermal O/L Relay -25 ... +55 °C<br>Close to Contactor without Thermal O/L Relay (Uc) -40 ... +70 °C |
| Climatic Withstand                     | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II                                                                                                                                                                                                 |
| Maximum Operating Altitude Permissible | 3000 m                                                                                                                                                                                                                                                                |
| 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                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Number of Auxiliary Contacts NC                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Standards                                          | Devices complying with international standards IEC 947-1 / 947-4-1, and European standards EN 60 947-1 / 60 947-4-1. Electromagnetic compatibility (EMC) acc. to amendment A11 to IEC 947-1, EN 60 947-1 and amendment 2 to IEC 947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rated Operational Voltage                          | Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Rated Frequency (f)                                | Supply Circuit 50 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-5-1, $q = 40^\circ\text{C}$ 16 A<br>acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 125 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated Operational Current AC-1 ( $I_e$ )           | (690 V) $40^\circ\text{C}$ 115 A<br>(690 V) $55^\circ\text{C}$ 95 A<br>(690 V) $70^\circ\text{C}$ 80 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rated Operational Current AC-3 ( $I_e$ )           | (1000 V) $55^\circ\text{C}$ 25 A<br>(220 / 230 / 240 V) $55^\circ\text{C}$ 65 A<br>(380 / 400 V) $55^\circ\text{C}$ 65 A<br>(415 V) $55^\circ\text{C}$ 65 A<br>(440 V) $55^\circ\text{C}$ 65 A<br>(500 V) $55^\circ\text{C}$ 55 A<br>(690 V) $55^\circ\text{C}$ 43 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational Power AC-3 ( $P_e$ )             | (220 / 230 / 240 V) 18.5 kW<br>(380 / 400 V) 30 kW<br>(415 V) 37 kW<br>(440 V) 37 kW<br>(500 V) 37 kW<br>(690 V) 37 kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rated Operational Power AC-6b ( $P_e$ )            | (230 / 240 V) $40^\circ\text{C}$ , 50 / 60 Hz 25 KVR<br>(230 / 240 V) $55^\circ\text{C}$ , 50 / 60 Hz 25 KVR<br>(230 / 240 V) $70^\circ\text{C}$ , 50 / 60 Hz 23 KVR<br>(400 / 415 V) $40^\circ\text{C}$ , 50 / 60 Hz 43 KVR<br>(400 / 415 V) $70^\circ\text{C}$ , 50 / 60 Hz 39 KVR<br>(400 / 415 V) $55^\circ\text{C}$ , 50 / 60 Hz 43 KVR<br>(440 V) $40^\circ\text{C}$ , 50 / 60 Hz 47 KVR<br>(440 V) $55^\circ\text{C}$ , 50 / 60 Hz 47 KVR<br>(440 V) $70^\circ\text{C}$ , 50 / 60 Hz 42.5 KVR<br>(500 / 550 V), $40^\circ\text{C}$ , 50 / 60 Hz 54 KVR<br>(500 / 550 V) $55^\circ\text{C}$ , 50 / 60 Hz 54 KVR<br>(500 / 550 V) $70^\circ\text{C}$ , 50 / 60 Hz 48.5 KVR<br>(690 V) $40^\circ\text{C}$ , 50 / 60 Hz 74 KVR<br>(690 V) $55^\circ\text{C}$ , 50 / 60 Hz 74 KVR<br>(690 V) $70^\circ\text{C}$ , 50 / 60 Hz 67 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Rated Operational Current AC-15 ( $I_e$ )          | (220 / 240 V) 4 A<br>(24 / 127 V) 6 A<br>(380 / 440 V) 3 A<br>(500 V) 2 A<br>(690 V) 2 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Short-Circuit Protective Devices                   | Auxiliary Circuit - gG Type Fuses 10 A<br>gG Type Fuses 125 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Maximum Breaking Capacity                          | $\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 440 V 1300 A<br>$\cos \phi = 0.45$ ( $\cos \phi = 0.35$ for $I_e > 100$ A) at 690 V 630 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Maximum Electrical Switching Frequency             | AC-1 600 cycles per hour<br>AC-2 / AC-4 150 cycles per hour<br>AC-3 600 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rated Operational Current DC-13 ( $I_e$ )          | (125 V) 0.55 / 69 A<br>(24 V) 6 / 144 A<br>(250 V) 0.3 / 75 A<br>(48 V) 2.8 / 134 A<br>(72 V) 1 / 72 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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<br>acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                                                              |                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )          | 8 kV                                                                                                                                                                                                                                                               |
| Mechanical Durability                                        | 10 million                                                                                                                                                                                                                                                         |
| Maximum Mechanical Switching Frequency                       | 3600 cycles per hour                                                                                                                                                                                                                                               |
| Rated Control Circuit Voltage (U <sub>c</sub> )              | 50 Hz 110 V<br>60 Hz 110 ... 120 V                                                                                                                                                                                                                                 |
| Coil Consumption                                             | Average Holding Value 50 / 60 Hz 18 5.5 V·A<br>Average Pull-in Value 50 Hz 190 V·A<br>Average Pull-in Value 60 Hz 180 V·A                                                                                                                                          |
| Operate Time                                                 | Between Coil De-energization and NC Contact Closing 7 ... 14 ms<br>Between Coil De-energization and NO Contact Opening 4 ... 11 ms<br>Between Coil Energization and NC Contact Opening 7 ... 22 ms<br>Between Coil Energization and NO Contact Closing 8 ... 27 ms |
| Connecting Capacity Main Circuit                             | Flexible with Cable End 6 ... 16 m <sup>2</sup><br>Rigid Cable 6 ... 25 m <sup>2</sup>                                                                                                                                                                             |
| Connecting Capacity Auxiliary Circuit                        | Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Cable 1 ... 4 m <sup>2</sup>                                                                                                                                                                         |
| Degree of Protection                                         | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20                                                                                                                                                                                                  |
| Connecting Terminals (delivered in open position) Main Poles | M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector                                                                                                                                                                                                         |
| Terminal Type                                                | Screw Terminals                                                                                                                                                                                                                                                    |

## Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 82 mm  |
| Product Net Depth / Length | 108 mm |
| Product Net Height         | 110 mm |
| Product Net Weight         | 1.2 kg |

## Popular Downloads

|                                   |                      |
|-----------------------------------|----------------------|
| Data Sheet, Technical Information | 1SBC100122C0202_Ch02 |
| Instructions and Manuals          | FPTC407700P0003      |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85364900 |

## Categories

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

