

## PRODUCT-DETAILS

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



## 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      | <p>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.</p> |

## Ordering

|                              |                 |
|------------------------------|-----------------|
| Minimum Order Quantity       | 1 piece         |
| Customs Tariff Number        | 85364900        |
| Replacement Product ID (NEW) | 1SBL381001R8411 |

## Popular Downloads

Data Sheet, Technical  
Information

1SBC100122C0202\_Ch02

Instructions and Manuals

FPTC407700P0003

## Dimensions

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

## Technical

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Main Contacts<br>NO                         | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Number of Main Contacts<br>NC                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Number of Auxiliary<br>Contacts NO                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Number of Auxiliary<br>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                             | Auxiliary Circuit 690 V<br>Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rated Frequency (f)                                   | Auxiliary Circuit 50 / 60 Hz<br>Control Circuit 50 / 60 Hz                                                                                                                                                                                                                                                                                                                                                                                               |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $\Theta = 40^\circ\text{C}$ 125 A<br>acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A                                                                                                                                                                                                                                                                                                                      |
| Rated Operational Current<br>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<br>AC-3 ( $I_e$ )           | (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<br>(1000 V) $55^\circ\text{C}$ 25 A<br>(380 / 400 V) $55^\circ\text{C}$ 65 A<br>(220 / 230 / 240 V) $55^\circ\text{C}$ 65                                                                                                                                                                                       |
| Rated Operational Power<br>AC-3 ( $P_e$ )             | (415 V) 37 kW<br>(440 V) 37 kW<br>(500 V) 37 kW<br>(690 V) 37 kW<br>(1000 V) 33 kW<br>(380 / 400 V) 30 kW<br>(220 / 230 / 240 V) 18.5 kW                                                                                                                                                                                                                                                                                                                 |
| Rated Operational Power<br>AC-6b ( $P_e$ )            | (230 / 240 V) $40^\circ\text{C}$ , 50 / 60 Hz 25 kvar<br>(230 / 240 V) $55^\circ\text{C}$ , 50 / 60 Hz 25 kvar<br>(230 / 240 V) $70^\circ\text{C}$ , 50 / 60 Hz 23 kvar<br>(400 / 415 V) $40^\circ\text{C}$ , 50 / 60 Hz 43 kvar<br>(400 / 415 V) $70^\circ\text{C}$ , 50 / 60 Hz 39 kvar<br>(400 / 415 V) $55^\circ\text{C}$ , 50 / 60 Hz 43 kvar<br>(440 V) $40^\circ\text{C}$ , 50 / 60 Hz 47 kvar<br>(440 V) $55^\circ\text{C}$ , 50 / 60 Hz 47 kvar |

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         | (440 V) 70 °C, 50 / 60 Hz 42.5 kvar<br>(500 / 550 V), 40 °C, 50 / 60 Hz 54 kvar<br>(500 / 550 V) 55 °C, 50 / 60 Hz 54 kvar<br>(500 / 550 V) 70 °C, 50 / 60 Hz 48.5 kvar<br>(690 V) 40 °C, 50 / 60 Hz 74 kvar<br>(690 V) 55 °C, 50 / 60 Hz 74 kvar<br>(690 V) 70 °C, 50 / 60 Hz 67 kvar                                                                                                  |
| Rated Breaking Capacity<br>AC-3                                         | 8 x I <sub>e</sub> AC-3                                                                                                                                                                                                                                                                                                                                                                 |
| Rated Making Capacity<br>AC-3                                           | 10 x I <sub>e</sub> AC-3                                                                                                                                                                                                                                                                                                                                                                |
| Rated Operational Current<br>AC-15 (I <sub>g</sub> )                    | (500 V) 2 A<br>(690 V) 2 A<br>(24 / 127 V) 6 A<br>(220 / 240 V) 4 A<br>(380 / 400 V) 3 A                                                                                                                                                                                                                                                                                                |
| Short-Circuit Protective<br>Devices                                     | Auxiliary Circuit - gG Type Fuses 10 A<br>gG Type Fuses 125 A                                                                                                                                                                                                                                                                                                                           |
| Rated Short-time<br>Withstand Current Low<br>Voltage (I <sub>cw</sub> ) | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 135 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A<br>for 0.1 s 140 A<br>for 1 s 100 A |
| Maximum Breaking<br>Capacity                                            | cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 440 V 1300 A<br>cos phi=0.45 (cos phi=0.35 for I <sub>e</sub> > 100 A) at 690 V 630 A                                                                                                                                                                                                                                         |
| Maximum Electrical<br>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<br>DC-13 (I <sub>g</sub> )                    | (24 V) 6 / 144 A<br>(48 V) 2.8 / 134 A<br>(72 V) 1 / 72 A<br>(125 V) 0.55 / 69 A<br>(250 V) 0.3 / 75 W                                                                                                                                                                                                                                                                                  |
| Rated Insulation Voltage<br>(U <sub>i</sub> )                           | acc. to IEC 60947-4-1 1000 V<br>acc. to IEC 60947-5-1 690 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                                                                                                     |
| Rated Impulse Withstand<br>Voltage (U <sub>imp</sub> )                  | 8 kV                                                                                                                                                                                                                                                                                                                                                                                    |
| Mechanical Durability                                                   | 10 million                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum Mechanical<br>Switching Frequency                               | 3600 cycles per hour                                                                                                                                                                                                                                                                                                                                                                    |
| Rated Control Circuit<br>Voltage (U <sub>c</sub> )                      | 50 Hz 110 V<br>60 Hz 110 ... 120 V                                                                                                                                                                                                                                                                                                                                                      |
| Coil Consumption                                                        | Average Holding Value 50 / 60 Hz 18 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                                                                                                                      |
| Mounting on DIN Rail                                                    | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                                                                                                                                            |
| Mounting by Screws (not<br>supplied)                                    | 2 x M6 screws placed diagonally                                                                                                                                                                                                                                                                                                                                                         |
| Connecting Capacity Main<br>Circuit                                     | Flexible with Cable End 6 ... 16 mm²<br>Rigid Cable 6 ... 25 mm²                                                                                                                                                                                                                                                                                                                        |
| Connecting Capacity<br>Auxiliary Circuit                                | Flexible with Cable End 0.75 ... 2.5 mm²<br>Rigid Cable 1 ... 4 mm²                                                                                                                                                                                                                                                                                                                     |

|                                                                 |                                                                                                                                                                                                   |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of Protection                                            | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20<br>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<br>(delivered in open position) Main Poles | M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector                                                                                                                                        |
| Terminal Type                                                   | Screw Terminals                                                                                                                                                                                   |

## Technical UL/CSA

|                              |                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Use Rating<br>UL/CSA | (600 V AC) 90 A                                                                                                                                              |
| Horsepower Rating<br>UL/CSA  | (200 ... 208 V AC) Three Phase 20 hp<br>(220 ... 240 V AC) Three Phase 25 hp<br>(440 ... 480 V AC) Three Phase 60 hp<br>(550 ... 600 V AC) Three Phase 75 hp |

## Environmental

|                                           |                                                                                                                                                                                                                                                                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                   | Close to Contactor Fitted with Thermal O/L Relay -25 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 55 °C<br>Close to Contactor without Thermal O/L Relay (Uc) -40 ... 70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
| Climatic Withstand                        | acc. to IEC 60068-2-30 and 60068-2-11 - UTE C 63-100 specification II                                                                                                                                                                                              |
| Maximum Operating<br>Altitude Permissible | Without Derating 3000 m                                                                                                                                                                                                                                            |
| RoHS Status                               | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                  |

## Certificates and Declarations

|                                     |                                                  |
|-------------------------------------|--------------------------------------------------|
| ASEFA Certificate                   | ASEFA_05403BT                                    |
| BV Certificate                      | BV_2634H07559E0                                  |
| CB Certificate                      | CB_CN45324                                       |
| CCC Certificate                     | CCC_2018010304129267<br>CCC_2008010309289461     |
| CQC Certificate                     | CQC2018010304129267<br>CQC2008010309289461       |
| Declaration of Conformity<br>- CCC  | 2020980304001622<br>2020980304001226             |
| Declaration of Conformity<br>- CE   | 1SBD250801U1000                                  |
| Declaration of Conformity<br>- UKCA | 1SBD250818U1000                                  |
| DNV Certificate                     | DNV-GL_TAE00000TX                                |
| DNV GL Certificate                  | DNV-GL_TAE00000TX                                |
| EAC Certificate                     | EAC_RU C-FR ME77 B03599                          |
| LOVAG Certificate                   | LOVAG_FR03031                                    |
| LR Certificate                      | LRS_9830011E4                                    |
| RINA Certificate                    | RINA_ELE172319XG001                              |
| RMRS Certificate                    | RMRS_0507015250                                  |
| UL Certificate                      | UL-US-L312527-1101-21215991-6<br>UL-CA-2139468-4 |

UL Listing Card

UL\_E312527

## 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     |

## 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  |
| ETIM 8                             | EC000066 - Power contactor, AC switching  |
| eClass                             | V11.0 : 27371003                          |
| UNSPSC                             | 39121529                                  |
| IDEA Granular Category Code (IGCC) | 4756 >> Capacitor magnet contactor        |

## Categories

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

