

## PRODUCT-DETAILS

# A95-30-11-85

## A95-30-11 380-400V 50Hz / 400-415V 60Hz

### Contactor



#### General Information

|                       |                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | A95-30-11-85                                                                                                                                                                                                     |
| Product ID            | 1SFL431001R8511                                                                                                                                                                                                  |
| EAN                   | 7320500142752                                                                                                                                                                                                    |
| Catalog Description   | A95-30-11 380-400V 50Hz / 400-415V 60Hz Contactor                                                                                                                                                                |
| Long Description      | A 3-phase Contactor suitable for various applications such as Motor starting, Isolation, Bypass and Distribution application up to max 1000 V. Operated with control voltage, versions from 24V AC, 50 and 60 Hz |

#### Ordering

|                              |                 |
|------------------------------|-----------------|
| Minimum Order Quantity       | 1 piece         |
| Customs Tariff Number        | 85364900        |
| Replacement Product ID (NEW) | 1SBL407001R1411 |

#### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 1SBC100192C0206 |
| Instructions and Manuals          | 5309660-60      |
| Dimension Diagram                 | 53540923-1      |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 102 mm   |
| Product Net Depth / Length | 123.5 mm |
| Product Net Height         | 148 mm   |
| Product Net Weight         | 1.8 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                                                                                                                                                                                                                                                                                                                                                   |
| Rated Operational Voltage                             | Main Circuit 1000 V                                                                                                                                                                                                                                                                                                                                 |
| Rated Frequency (f)                                   | Main Circuit 50/60 Hz                                                                                                                                                                                                                                                                                                                               |
| Conventional Free-air<br>Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors q = 40 °C 145 A                                                                                                                                                                                                                                                                                              |
| Rated Operational Current<br>AC-1 ( $I_e$ )           | (690 V) 40 °C 145<br>(690 V) 55 °C 135<br>(690 V) 70 °C 115                                                                                                                                                                                                                                                                                         |
| Rated Operational Current<br>AC-3 ( $I_e$ )           | (415 V) 55 °C 96 A<br>(440 V) 55 °C 93 A<br>(500 V) 55 °C 80 A<br>(690 V) 55 °C 65 A<br>(1000 V) 55 °C 30 A<br>(380 / 400 V) 55 °C 96 A<br>(220 / 230 / 240 V) 55 °C 96                                                                                                                                                                             |
| Rated Operational Power<br>AC-3 ( $P_e$ )             | (415 V) 55 kW<br>(440 V) 55 kW<br>(500 V) 55 kW<br>(690 V) 55 kW<br>(1000 V) 40 kW<br>(380 / 400 V) 45 kW<br>(220 / 230 / 240 V) 25 kW                                                                                                                                                                                                              |
| Rated Breaking Capacity<br>AC-3 acc. to IEC 60947-4-1 | 8 x $I_e$ AC-3                                                                                                                                                                                                                                                                                                                                      |
| Rated Making Capacity<br>AC-3 acc. to IEC 60947-4-1   | 10 x $I_e$ AC-3                                                                                                                                                                                                                                                                                                                                     |
| Short-Circuit Protective<br>Devices                   | gG Type Fuses 160 A                                                                                                                                                                                                                                                                                                                                 |
| Rated Short-time<br>Withstand Current ( $I_{cw}$ )    | at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 800 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 160 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 350 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1320 A<br>at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 500 A |
| Maximum Breaking<br>Capacity                          | cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 440 V 1160 A<br>cos phi=0.45 (cos phi=0.35 for $I_e > 100$ A) at 690 V 800 A                                                                                                                                                                                                                       |
| Maximum Electrical<br>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 Operational Current<br>DC-1 ( $I_e$ )                        | (110 V) 2 Poles in Series, 40 °C 145 A<br>(220 V) 3 Poles in Series, 40 °C 145 A                                                                                                                                                                                     |
| Rated Operational Current<br>DC-3 ( $I_e$ )                        | (110 V) 2 Poles in Series, 40 °C 145 A<br>(220 V) 3 Poles in Series, 40 °C 145 A                                                                                                                                                                                     |
| Rated Operational Current<br>DC-5 ( $I_e$ )                        | (110 V) 2 Poles in Series, 40 °C 145 A<br>(220 V) 3 Poles in Series, 40 °C 145 A                                                                                                                                                                                     |
| Rated Insulation Voltage<br>( $U_i$ )                              | acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V<br>acc. to UL/CSA 600 V                                                                                                                                                                                            |
| Rated Impulse Withstand<br>Voltage ( $U_{imp}$ )                   | Main Circuit 8 kV                                                                                                                                                                                                                                                    |
| Mechanical Durability                                              | 10 million                                                                                                                                                                                                                                                           |
| Maximum Mechanical<br>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<br>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 De-energization and NO Contact Opening 10 ... 18 ms<br>Between Coil Energization and NC Contact Opening 7 ... 22 ms<br>Between Coil Energization and NO Contact Closing 10 ... 25 ms |
| Connecting Capacity Main<br>Circuit                                | Bar 30 mm <sup>2</sup><br>Flexible with Cable End 2 x 6 ... 35 mm <sup>2</sup><br>Rigid 2 x 6 ... 65 mm <sup>2</sup>                                                                                                                                                 |
| Connecting Capacity<br>Auxiliary Circuit                           | Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible 2x0.75 ... 2.5 mm <sup>2</sup><br>Solid 2 x 1 ... 4 mm <sup>2</sup><br>Stranded 2 x 1 ... 4 mm <sup>2</sup>                     |
| 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<br>(delivered in open<br>position) Main Poles | M8 hexagon socket screw with single connector                                                                                                                                                                                                                        |
| Terminal Type                                                      | Cable Clamp                                                                                                                                                                                                                                                          |

## Technical UL/CSA

|                                     |                                                                                                                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Operating<br>Voltage UL/CSA | Main Circuit 600 V                                                                                                                                                                   |
| General Use Rating<br>UL/CSA        | (600 V AC) 125 A                                                                                                                                                                     |
| Horsepower Rating<br>UL/CSA         | (200 V AC) Three Phase 30 hp<br>(208 V AC) Three Phase 30 hp<br>(220 ... 240 V AC) Three Phase 30 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 (0.85 ... 1.1 $U_c$ ) -25 ... +50 °C<br>Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 $U_c$ ) -40 ... +70 °C<br>Close to Contactor for Storage -60 ... +80 °C |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Direction: A 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock<br>Direction: A 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock<br>Direction: B1 15 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock<br>Direction: C1 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Closed, Shock<br>Direction: C2 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock<br>Direction: B1 5 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock<br>Direction: B2 15 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock<br>Direction: C1 20 K40<br>Half-sine Pulse for 11 ms, No Change in Contact Position, Open, Shock<br>Direction: C2 20 K40 |
| RoHS Status                                | Following EU Directive 2011/65/EU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Certificates and Declarations (Document Number)

|                                       |                      |
|---------------------------------------|----------------------|
| BV Certificate                        | 07172/D0 BV          |
| CB Certificate                        | SE-69430             |
| CCC Certificate                       | CQC_2002010304008904 |
| CQC Certificate                       | CQC2002010304008904  |
| Declaration of Conformity - CCC (CCC) | 2020980304001630     |
| Declaration of Conformity - CE        | 2CMT2015-005436      |
| DNV Certificate                       | DNV_E-12191          |
| Environmental Information             | 1SFC101001D0201      |
| GL Certificate                        | GL_99358-97HH        |
| Instructions and Manuals              | 5309660-60           |
| LOVAG Certificate                     | SE-9631076-1         |
| LR Certificate                        | LR_12-70027-E1       |
| RINA Certificate                      | ELE060313XG/001      |
| RMRS Certificate                      | RMRS_12-03683-315    |
| RoHS Information                      | 2CMT2015-005436      |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 130 mm        |
| Package Level 1 Depth / Length | 265 mm        |
| Package Level 1 Height         | 162 mm        |
| Package Level 1 Gross Weight   | 2 kg          |
| Package Level 1 EAN            | 7320500142752 |

## 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           |
| IDEA Granular Category Code (IGCC) |                                           | 4755 >> Contactors |

Categories

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

