

## PRODUCT-DETAILS

# GA75-10-11 230-240V 50Hz / 277V 60Hz GA75-10-11 230-240V 50Hz / 277V 60Hz Contactor



## General Information

|                       |                                                |
|-----------------------|------------------------------------------------|
| Extended Product Type | GA75-10-11 230-240V 50Hz / 277V 60Hz           |
| Product ID            | 1SBL411025R4211                                |
| EAN                   | 3471522100429                                  |
| Catalog Description   | GA75-10-11 230-240V 50Hz / 277V 60Hz Contactor |

### Long Description

GA75 contactors are designed for DC circuit switching. Arc suppression is more difficult in DC than in AC. To choose a contactor, it is necessary to know the current and voltage to be broken as well as the L/R time constant of the power circuit to be controlled. GA75 contactors are of the block type design. - Main poles: the contactors are fitted with arc chutes with permanent magnets specially designed for DC breaking. The three contactor paths are arranged in series via two supplied and fitted insulated connections (25 mm<sup>2</sup>). The GA75 are "single-pole" devices for which the connection polarities indicated next to the connection terminals must be respected. Furthermore, they are marked 1L1 for the positive terminal and 2T1 for the negative terminal. - Auxiliary contact: 1 CAL 5-11 side-mounted add-on auxiliary contact block (GA75-10-11 types) - Control circuit: AC operated with laminated magnet circuit - Accessories: a wide range of accessories is available

## Ordering

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

## Popular Downloads

|                                   |                      |
|-----------------------------------|----------------------|
| Data Sheet, Technical Information | 1SBC100122C0202_Ch02 |
|-----------------------------------|----------------------|

## Dimensions

|                            |         |
|----------------------------|---------|
| Product Net Width          | 82 mm   |
| Product Net Depth / Length | 108 mm  |
| Product Net Height         | 132 mm  |
| Product Net Weight         | 1.26 kg |

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Operational Voltage                          | Main Circuit 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Rated Frequency (f)                                | Supply Circuit 50 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Conventional Free-air Thermal Current ( $I_{th}$ ) | acc. to IEC 60947-4-1, Open Contactors $q = 40^\circ\text{C}$ 125 A<br>acc. to IEC 60947-5-1, $q = 40^\circ\text{C}$ 16 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational Current AC-15 ( $I_e$ )          | (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 Devices                   | Auxiliary Circuit - gG Type Fuses 10 A<br>gG Type Fuses 160 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum Electrical Switching Frequency             | 300 cycles per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Operational Current DC-1 ( $I_e$ )           | (1000 V) 1-Pole, $40^\circ\text{C}$ 35 A<br>(1000 V) 1-Pole, $55^\circ\text{C}$ 35 A<br>(1000 V) 1 Pole, $70^\circ\text{C}$ 35 A<br>(110 V) 1-Pole, $40^\circ\text{C}$ 120 A<br>(110 V) 1-Pole, $55^\circ\text{C}$ 100 A<br>(110 V) 1-Pole, $70^\circ\text{C}$ 85 A<br>(220 V) 1-Pole, $40^\circ\text{C}$ 120 A<br>(220 V) 1-Pole, $55^\circ\text{C}$ 100 A<br>(220 V) 1-Pole, $70^\circ\text{C}$ 85 A<br>(440 V) 1-Pole, $40^\circ\text{C}$ 100 A<br>(440 V) 1-Pole, $55^\circ\text{C}$ 100 A<br>(440 V) 1-Pole, $70^\circ\text{C}$ 85 A<br>(600 V) 1-Pole, $40^\circ\text{C}$ 75 A<br>(600 V) 1-Pole, $55^\circ\text{C}$ 75 A<br>(600 V) 1-Pole, $70^\circ\text{C}$ 75 A<br>(72 V) 1-Pole, $40^\circ\text{C}$ 120 A<br>(72 V) 1-Pole, $55^\circ\text{C}$ 100 A<br>(72 V) 1-Pole, $70^\circ\text{C}$ 85 A |
| Rated Operational Current DC-3 ( $I_e$ )           | (110 V) 1-Pole, $40^\circ\text{C}$ 120 A<br>(110 V) 1-Pole, $55^\circ\text{C}$ 100 A<br>(220 V) 1-Pole, $40^\circ\text{C}$ 100 A<br>(220 V) 1-Pole, $55^\circ\text{C}$ 100 A<br>(440 V) 1-Pole, $40^\circ\text{C}$ 85 A<br>(440 V) 1-Pole, $55^\circ\text{C}$ 85 A<br>(72 V) 1-Pole, $40^\circ\text{C}$ 120 A<br>(72 V) 1-Pole, $55^\circ\text{C}$ 100 A                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Rated Operational Current DC-5 ( $I_e$ )           | (110 V) 1-Pole, $40^\circ\text{C}$ 85 A<br>(110 V) 1-Pole, $55^\circ\text{C}$ 85 A<br>(220 V) 1-Pole, $40^\circ\text{C}$ 85 A<br>(220 V) 1-Pole, $55^\circ\text{C}$ 85 A<br>(440 V) 1-Pole, $40^\circ\text{C}$ 35 A<br>(440 V) 1-Pole, $55^\circ\text{C}$ 35 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | (72 V) 1-Pole, 40 °C 85 A<br>(72 V) 1-Pole, 55 °C 85 A                                                                                                                                                                                                                                                                                                                                      |
| Rated Operational Current DC-13 ( $I_e$ )                    | (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 A                                                                                                                                                                                                                                                                                      |
| Rated Insulation Voltage ( $U_i$ )                           | 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<br>acc. to UL/CSA 600 V                                                                                                                                                                                                                                                               |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )                | 8 kV                                                                                                                                                                                                                                                                                                                                                                                        |
| Mechanical Durability                                        | 10 million                                                                                                                                                                                                                                                                                                                                                                                  |
| Maximum Mechanical Switching Frequency                       | 3600 cycles per hour                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Control Circuit Voltage ( $U_c$ )                      | 50 Hz 230 ... 240 V<br>60 Hz 277 V                                                                                                                                                                                                                                                                                                                                                          |
| Coil Consumption                                             | Average Holding Value 50 / 60 Hz 18 5.5 V-A<br>Average Pull-in Value 50 Hz 180 V-A<br>Average Pull-in Value 60 Hz 210 V-A<br>Holding at Max. Rated Control Circuit Voltage 50 Hz 18 5.5 V-A<br>Holding at Max. Rated Control Circuit Voltage 60 Hz 18 5.5 V-A<br>Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V-A<br>Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 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 mm <sup>2</sup><br>Rigid Cable 6 ... 25 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                    |
| Connecting Capacity Auxiliary Circuit                        | Flexible with Cable End 0.75 ... 2.5 mm <sup>2</sup><br>Rigid Cable 1 ... 4 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                 |
| Degree of Protection                                         | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP40                                                                                                                                                                                                                                                                                                                           |
| Connecting Terminals (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 | (1000 V DC) 35 A                    |
| UL/CSA             | (440 V DC) 100 A<br>(600 V DC) 75 A |

## Environmental

|                                        |                                                                                                                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature                | Close to Contactor for Storage -60 ... +80 °C<br>Near Contactor for Operation in Free Air (0.85 ... 1.1 $U_c$ ) -40 ... +55 °C<br>Near Contactor for Operation in Free Air ( $U_c$ ) -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                                                                                                                                                                   |

## Certificates and Declarations (Document Number)

|                                 |                      |
|---------------------------------|----------------------|
| CB Certificate                  | CB_CN45325           |
| CCC Certificate                 | CCC_2018010304129268 |
| CQC Certificate                 | CQC2018010304129268  |
| CSA Certificate                 | CSA_1033838_LR056745 |
| Declaration of Conformity - CCC | 2020980304001625     |

|                                |                         |
|--------------------------------|-------------------------|
| Declaration of Conformity - CE | 1SBD250807U1000         |
| EAC Certificate                | EAC_RU C-FR ME77 B03599 |
| Environmental Information      | 1SBD250038E1000         |
| Instructions and Manuals       | FPTC407691P0003         |
| RoHS Information               | 1SBD250807U1000         |
| UL Listing Card                | UL_E319322              |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 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   | 1.26 kg       |
| Package Level 1 EAN            | 3471522100429 |
| Package Level 2 Units          | box 63 piece  |
| Package Level 2 Gross Weight   | 79.38 kg      |

## Classifications

|                            |                                          |
|----------------------------|------------------------------------------|
| Object Classification Code | Q                                        |
| ETIM 4                     | EC002552 - Power contactor, DC switching |
| ETIM 5                     | EC002552 - Power contactor, DC switching |
| ETIM 6                     | EC002552 - Power contactor, DC switching |
| ETIM 7                     | EC002552 - Power contactor, DC switching |
| UNSPSC                     | 39121529                                 |

## Categories

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

