



Tel: +44 2476 368 500  
Email: [lv.enquiries@gb.abb.com](mailto:lv.enquiries@gb.abb.com)

## GA75-10-11 110V 50Hz/60Hz Contactor

Cat Number: 1SBL411025R8411



GA75 1 pole contactors - 100A DC-1 AC operated

\* Part number: GA75-10-11

\* GA75 contactors are designed for controlling shunt or series motors and resistive or slightly inductive loads up to 1000 V DC.

\* These contactors are of the block type design with 3 main poles connected in series.

- main poles arc chutes fitted with permanent magnets specially designed for DC breaking. The connection polarities must be respected.

- control circuit: AC operated

- add-on auxiliary contact blocks for side mounting and a wide range of accessories.

### Technical Specifications:

Minimum Order Quantity | 1 piece

Customs Tariff Number | 85364900

Product Net Width | 82 mm

Product Net Depth / Length | 108 mm

Product Net Height | 132 mm

Product Net Weight | 1.26 kg

Number of Main Contacts NO | 3

Number of Main Contacts NC | 0

Number of Auxiliary Contacts NO | 1

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Number of Auxiliary Contacts NC | 1

Rated Operational Voltage | Auxiliary Circuit 690 V Main Circuit 1000 V DC

Rated Frequency (f) | Auxiliary Circuit 50 / 60 Hz Control Circuit 50 / 60 Hz

Conventional Free-air Thermal Current (I<sub>th</sub>) | acc. to IEC 60947-4-1, Open Contactors  $\Theta = 40^\circ\text{C}$  125 A acc. to IEC 60947-5-1,  $\Theta = 40^\circ\text{C}$  16 A

Rated Operational Current AC-15 (I<sub>e</sub>) | (500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (380 / 400 V) 3 A

Short-Circuit Protective Devices | Auxiliary Circuit - gG Type Fuses 10 A gG Type Fuses 160 A

Rated Short-time Withstand Current Low Voltage (I<sub>cw</sub>) | for 0.1 s 140 A for 1 s 100 A

Maximum Electrical Switching Frequency | 300 cycles per hour

Rated Operational Current DC-1 (I<sub>e</sub>) | (1000 V) 1-Pole,  $40^\circ\text{C}$  35 A (1000 V) 1-Pole,  $55^\circ\text{C}$  35 A (1000 V) 1 Pole,  $70^\circ\text{C}$  35 A (110 V) 1-Pole,  $40^\circ\text{C}$  120 A (110 V) 1-Pole,  $55^\circ\text{C}$  100 A (110 V) 1-Pole,  $70^\circ\text{C}$  85 A (220 V) 1-Pole,  $40^\circ\text{C}$  120 A (220 V) 1-Pole,  $55^\circ\text{C}$  100 A (220 V) 1-Pole,  $70^\circ\text{C}$  85 A (440 V) 1-Pole,  $40^\circ\text{C}$  100 A (440 V) 1-Pole,  $55^\circ\text{C}$  100 A (440 V) 1-Pole,  $70^\circ\text{C}$  85 A (600 V) 1-Pole,  $40^\circ\text{C}$  75 A (600 V) 1-Pole,  $55^\circ\text{C}$  75 A (600 V) 1-Pole,  $70^\circ\text{C}$  75 A (72 V) 1-Pole,  $40^\circ\text{C}$  120 A (72 V) 1-Pole,  $55^\circ\text{C}$  100 A (72 V) 1-Pole,  $70^\circ\text{C}$  85 A

Rated Operational Current DC-3 (I<sub>e</sub>) | (110 V) 1-Pole,  $40^\circ\text{C}$  120 A (110 V) 1-Pole,  $55^\circ\text{C}$  100 A (220 V) 1-Pole,  $40^\circ\text{C}$  100 A (220 V) 1-Pole,  $55^\circ\text{C}$  100 A (440 V) 1-Pole,  $40^\circ\text{C}$  85 A (440 V) 1-Pole,  $55^\circ\text{C}$  85 A (72 V) 1-Pole,  $40^\circ\text{C}$  120 A (72 V) 1-Pole,  $55^\circ\text{C}$  100 A

Rated Operational Current DC-5 (I<sub>e</sub>) | (110 V) 1-Pole,  $40^\circ\text{C}$  85 A (110 V) 1-Pole,  $55^\circ\text{C}$  85 A (220 V) 1-Pole,  $40^\circ\text{C}$  85 A (220 V) 1-Pole,  $55^\circ\text{C}$  85 A (440 V) 1-Pole,  $40^\circ\text{C}$  35 A (440 V) 1-Pole,  $55^\circ\text{C}$  35 A (72 V) 1-Pole,  $40^\circ\text{C}$  85 A (72 V) 1-Pole,  $55^\circ\text{C}$  85 A

Rated Operational Current DC-13 (I<sub>e</sub>) | (24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.30 A / 66 W (250 V) 0.3 / 75 W

Rated Insulation Voltage (U<sub>i</sub>) | acc. to IEC 60947-4-1 1000 V acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 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 60 Hz 110 ... 120 V

Coil Consumption | Average Holding Value 50 / 60 Hz 18 V·A Average Pull-in Value 50 Hz 190 V·A Average Pull-in Value 60 Hz 180 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 18 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 W Holding at Max. Rated Control Circuit Voltage 60 Hz 18 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 180 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A



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Operate Time | Between Coil De-energization and NC Contact Closing 7 ... 14 ms  
Between Coil De-energization and NO Contact Opening 4 ... 11 ms  
Between Coil Energization and NC Contact Opening 7 ... 22 ms  
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  
TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715

Mounting by Screws (not supplied) | 2 x M6 screws placed diagonally

Connecting Capacity Main Circuit | Flexible with Cable End 6 ... 16 mm<sup>2</sup> Rigid Cable 6 ... 25 mm<sup>2</sup>

Connecting Capacity Auxiliary Circuit | Flexible with Cable End 0.75 ... 2.5 mm<sup>2</sup> Rigid Cable 1 ... 4 mm<sup>2</sup>

Degree of Protection | acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20  
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20  
acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10

Connecting Terminals (delivered in open position) Main Poles | M 6 (+,-) pozidriv 2 screws with 1x (13 x 10 mm) connector

Terminal Type | Screw Terminals

Maximum Operating Voltage UL/CSA | Main Circuit 1000 V DC

General Use Rating UL/CSA | (1000 V DC) 35 A (440 V DC) 100 A (600 V DC) 75 A

Ambient Air Temperature | Close to Contactor for Storage -60 ... +80 °C  
Near Contactor for Operation in Free Air (0.85 ... 1.1 U<sub>c</sub>) -40 ... +55 °C  
Near Contactor for Operation in Free Air (U<sub>c</sub>) -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 | Without Derating 3000 m

RoHS Status | Following EU Directive 2011/65/EU

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 | 3471522100849

Package Level 2 Units | box 63 piece

Package Level 2 Gross Weight | 79.38 kg

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

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ETIM 8 | EC002552 - Power contactor, DC switching

eClass | V11.0 : 27371018

UNSPSC | 39121529

IDEA Granular Category Code (IGCC) | 4763 >> Power contactor, DC switching

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