

GAE75-10-11 220V DC



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

General Information

Extended Product Type:	GAE75-10-11 220V DC
Product ID:	1SBL419025R8811
EAN:	3471522113887
Catalog Description:	GAE75-10-11 220V DC Contactor
Long Description:	<p>GAE75 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. GAE 75 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 mm²). The GAE75 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 (GAE75-10-11 types) - Control circuit: DC operated with standard double-winding DC coils (with add-on factory-mounted lagging contact for insertion of the "holding" winding) - Accessories: a wide range of accessories is available</p>

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85364900

Popular Downloads

Data Sheet, Technical Information:	1SBC100122C0202_Ch02
Instructions and Manuals:	FPTC407691P0003

Dimensions

Product Net Width:	94 mm
Product Net Depth:	108 mm
Product Net Height:	132 mm
Product Net Weight:	1.300 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 Hz Supply Circuit 60 Hz
Conventional Free-air Thermal Current (I_{th}):	acc. to IEC 60947-4-1, Open Contactors $q = 40\text{ °C}$ 125 A acc. to IEC 60947-5-1, $q = 40\text{ °C}$ 16 A
Rated Operational Current AC-15 (I_e):	(220 / 240 V) 4 A (24 / 127 V) 6 A (380 / 440 V) 3 A (500 V) 2 A (690 V) 2 A
Short-Circuit Protective Devices:	Auxiliary Circuit - gG Type Fuses 10 A 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 °C 35 A (1000 V) 1-Pole, 55 °C 35 A (1000 V) 1 Pole, 70 °C 35 A (110 V) 1-Pole, 40 °C 120 A (110 V) 1-Pole, 55 °C 100 A (110 V) 1-Pole, 70 °C 85 A (220 V) 1-Pole, 40 °C 120 A (220 V) 1-Pole, 55 °C 100 A (220 V) 1-Pole, 70 °C 85 A (440 V) 1-Pole, 40 °C 100 A (440 V) 1-Pole, 55 °C 100 A (440 V) 1-Pole, 70 °C 85 A (600 V) 1-Pole, 40 °C 75 A (600 V) 1-Pole, 55 °C 75 A (600 V) 1-Pole, 70 °C 75 A (72 V) 1-Pole, 40 °C 120 A (72 V) 1-Pole, 55 °C 100 A (72 V) 1-Pole, 70 °C 85 A
Rated Operational Current DC-3 (I_e):	(110 V) 1-Pole, 40 °C 120 A (110 V) 1-Pole, 55 °C 100 A (220 V) 1-Pole, 40 °C 100 A (220 V) 1-Pole, 55 °C 100 A (440 V) 1-Pole, 40 °C 85 A (440 V) 1-Pole, 55 °C 85 A (72 V) 1-Pole, 40 °C 120 A (72 V) 1-Pole, 55 °C 100 A

Rated Operational Current DC-5 (I_e):	(110 V) 1-Pole, 40 °C 85 A (110 V) 1-Pole, 55 °C 85 A (220 V) 1-Pole, 40 °C 85 A (220 V) 1-Pole, 55 °C 85 A (440 V) 1-Pole, 40 °C 35 A (440 V) 1-Pole, 55 °C 35 A (72 V) 1-Pole, 40 °C 85 A (72 V) 1-Pole, 55 °C 85 A
Rated Operational Current DC-13 (I_e):	(125 V) 0.55 / 69 A (24 V) 6 / 144 A (250 V) 0.3 / 75 A (48 V) 2.8 / 134 A (72 V) 1 / 72 A
Rated Insulation Voltage (U_i):	acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp}):	8 kV
Maximum Mechanical Switching Frequency:	3600 cycles per hour
Rated Control Circuit Voltage (U_c):	DC Operation 220 V
Coil Consumption:	Average Holding Value, from Warm State 4 W Average Pull-in Value, from Cold State 200 W Holding at Max. Rated Control Circuit Voltage DC 4 W Pull-in at Max. Rated Control Circuit Voltage DC 200 W
Operate Time:	Between Coil Energization and NO Contact Closing 30 ... 30 ms Between Coil De-energization and NO Contact Opening 5 ... 15 ms Between Coil De-energization and NC Contact Closing 8 ... 18 ms Between Coil Energization and NC Contact Opening 10 ... 27 ms
Connecting Capacity Main Circuit:	Flexible with Cable End 6 ... 16 mm ² Rigid Cable 6 ... 25 mm ²
Connecting Capacity Auxiliary Circuit:	Flexible with Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 mm ²
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

Environmental

Ambient Air Temperature:	Near Contactor for Operation in Free Air (0.85 ... 1.1 U _c) -40 ... +55 °C Near Contactor for Operation in Free Air (U _c) -40 ... +70 °C 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 Altitude Permissible:	3000 m

RoHS Status:	No declaration needed
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Technical UL/CSA

General Use Rating UL/CSA:	(1000 V DC) 35 A (600 V DC) 75 A (440 V DC) 100 A
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Certificates and Declarations (Document Number)

CB Certificate:	CB_SE_69650
CCC Certificate:	CCC_2011010304454200
CSA Certificate:	CSA_1033838_LR056745
Declaration of Conformity - CE:	1SBD250807U1000
Environmental Information:	1SBD250039E1000
GOST Certificate:	GOST_POCCFRME77B07175
Instructions and Manuals:	FPTC407691P0003
RoHS Information:	1SBC101059D0201
UL Listing Card:	UL_E319322

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	140 mm
Package Level 1 Length:	146 mm
Package Level 1 Height:	96 mm
Package Level 1 Gross Weight:	1.3 kg
Package Level 1 EAN:	3471522113887
Package Level 2 Units:	63 piece

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
UNSPSC:	39121529

