

SIEMENS

Contactors

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Q/SMS 004, GB14048.4, DIN VDE0660, IEC 60947-4-1



XK06-201 0025

3TB44

Instructions

Order No.: 2JD.401.302 SM e

English

WARNING
Hazardous voltage
can cause electrical shock and burns.
Disconnect power before proceeding
with any work on this equipment.

Limited protection against contact with live parts

- Degree of protection IP 00 to IEC 60529.
- Safe from finger touch to DIN VDE 0106, Part 100.
- Commissioning and maintenance by qualified personnel only.
- Follow the operating instructions.

Installation

For dimension drawings see Fig. I (dimensions in mm).
Snap onto 35 mm standard mounting rail to DIN EN 50 022 or fix on a plain surface with two M4 screws. With screw mounting, always use plain washers and spring washers.
Cover the contactors during installation if foreign particles, such as swarf, can fall onto them. Install contactors in a housing if they are exposed to dirt, dust or aggressive atmospheres.
For permissible mounting positions see Fig. II

Connection

The terminal screws can be tightened with a power screwdriver.
Screwdriver blade width: 5 to 8 mm
Permissible conductor cross-sections for main conductor:
Solid 2x2.5 to 10 mm²
Finely stranded with end sleeve 2x1.5 to 4 mm²
AWG wires 2xAWG 14 to 10
Tightening torque 2.5 to 3.0 Nm / 22 to 26.5 lb.in
Permissible conductor cross-sections for auxiliary conductor:
Solid 2x1 to 2.5 mm²
Finely stranded with end sleeve 2x0.75 to 1.5 mm²
AWG wires 2xAWG 18 to 12
Tightening torque standard type 0.8 to 1.4 Nm / 7 to 12 lb.in

For circuit diagrams and position of connection terminals see Fig. III

Technical Data

Permissible ambient temperatures
- Operation -25 to +55 °C
- Storage -50 to +80 °C
Rated insulation voltage Ui AC 660V

Rated operating current I _n (AC-1155 °C)	45A
Rated operational voltage	Motor rating P _n (AC-3 3TB44)
-220V	8.5 kW
-380V	15 kW
-415V	15.4 kW
-500V	18.5 kW
-660V	15 kW
Short-circuit protection:	Fuse-links Duty class gL(gG)
Degree of protection to DIN VDE 0680 IEC 60947-4-1 **	3TB44
-assignment type 1	80A
-assignment type 2	63A
-non-welding k < 100 x I _n	25A
-non-welding k ≥ 100 x I _n	25A

Auxiliary circuit

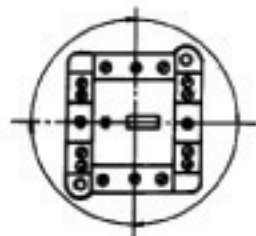
Rated operating voltage	Rated operating current	I _n (AC-15/AC-11)
- 24V	10 A	
- 110V	10 A	
- 125V	10 A	
- 220V	6 A	
- 380V	4 A	
- 415V	3 A	
- 500V	2.5 A	
- 660V	2.5 A	

Rated operating voltage	Rated operating current	I _n (DC-13/DC-11)
- 24V	10 A	
- 48V	5 A	
- 110V	1.8 A	
- 115V	1.6 A	
- 220V	0.8 A	
- 440V	0.27A	
- 600V	0.18A	

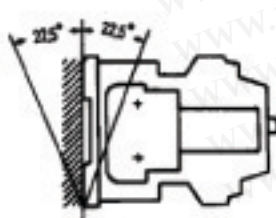
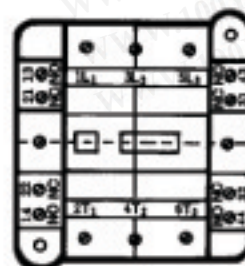
Short-circuit protection:
- Fuse-links NEOZED and DIAZED, gL (gG) 16 A
- Circuit-breaker, C-char 10 A

For further data and accessories see Catalog

II



III



* Footnote:

According to IEC 60947-4-1 VDE 0680, the types of protection mean:

Assignment type 1: Short circuits can cause damage to the contactors making replacement of the equipment necessary.

Assignment type 2: Easily separable contact welding but no other damage.