

Contactor relay, 2 NO + 2 NC, AC 48 V, 50/60 Hz, size S00, screw terminal



Product brand name	SIRIUS
Product designation	Contactor relay
Product type designation	3RH6
General technical data	
Size of contactor	S00
Product extension	
• Auxiliary switch	Yes
Insulation voltage	
• with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
Shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
Shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
Mechanical service life (switching cycles)	
• of contactor typical	30 000 000

- of the contactor with added auxiliary switch block typical

10 000 000

Ambient conditions

Installation altitude at height above sea level

- maximum 2 000 m

Ambient temperature

- during operation -25 ... +60 °C
- during storage -55 ... +80 °C

Main circuit

No-load switching frequency

- at AC 10 000 1/h
- at DC 10 000 1/h

Control circuit/ Control

Type of voltage of the control supply voltage

AC

Control supply voltage at AC

- at 50 Hz rated value 48 V
- at 60 Hz rated value 48 V

Operating range factor control supply voltage rated value of magnet coil at AC

- at 50 Hz 0.8 ... 1.1
- at 60 Hz 0.85 ... 1.1

Apparent pick-up power of magnet coil at AC

37 V·A

Inductive power factor with closing power of the coil

0.8

Apparent holding power of magnet coil at AC

5.7 V·A

Inductive power factor with the holding power of the coil

0.25

Auxiliary circuit

Number of NC contacts for auxiliary contacts

2

Number of NO contacts for auxiliary contacts

2

Identification number and letter for switching elements

22 E

Operating current at AC-12 maximum

6 A

Operating current at AC-15

- at 230 V rated value 10 A
- at 400 V rated value 3 A
- at 690 V rated value 1 A

Operating current at 1 current path at DC-12

- at 24 V rated value 6 A
- at 110 V rated value 3 A
- at 220 V rated value 1 A

Operating current with 2 current paths in series at DC-12 <ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value 	6 A 4 A 2 A
Operating current with 3 current paths in series at DC-12 <ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value 	6 A 6 A 3.6 A
Operating frequency at DC-12 maximum	1 000 1/h
Operating current at 1 current path at DC-13 <ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value 	6 A 1 A 0.3 A
Operating current with 2 current paths in series at DC-13 <ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value 	6 A 1.3 A 0.9 A
Operating current with 3 current paths in series at DC-13 <ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value 	6 A 3 A 1.2 A
Operating frequency at DC-13 maximum	1 000 1/h
Design of the miniature circuit breaker <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary circuit up to 230 V 	C characteristic: 6 A; 0.4 kA
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

Short-circuit protection

Design of the fuse link <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
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Installation/ mounting/ dimensions

• (mounting position)	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
• (mounting type)	screw and snap-on mounting onto 35 mm standard mounting rail
(height)	57.5 mm
Width	45 mm
Depth	73 mm

Connections/Terminals

Type of electrical connection

- for auxiliary and control current circuit

screw-type terminals

Type of connectable conductor cross-sections

- for auxiliary contacts
 - single or multi-stranded
 - finely stranded with core end processing
- at AWG conductors for auxiliary contacts

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

Safety related data

Product function

- positively driven operation acc. to IEC 60947-5-1

Yes

Certificates/approvals

General Product Approval

other

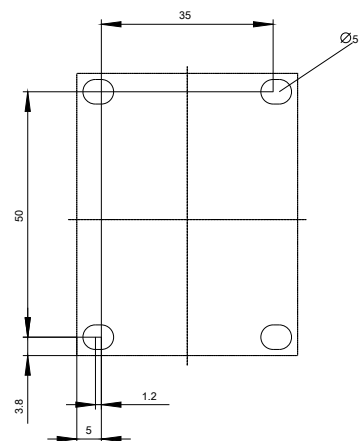
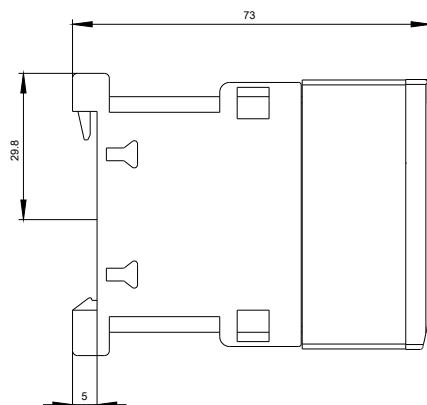
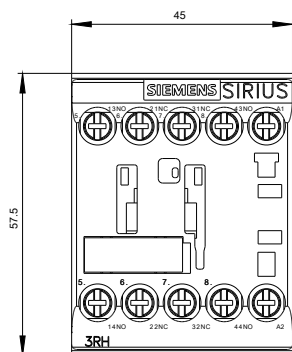


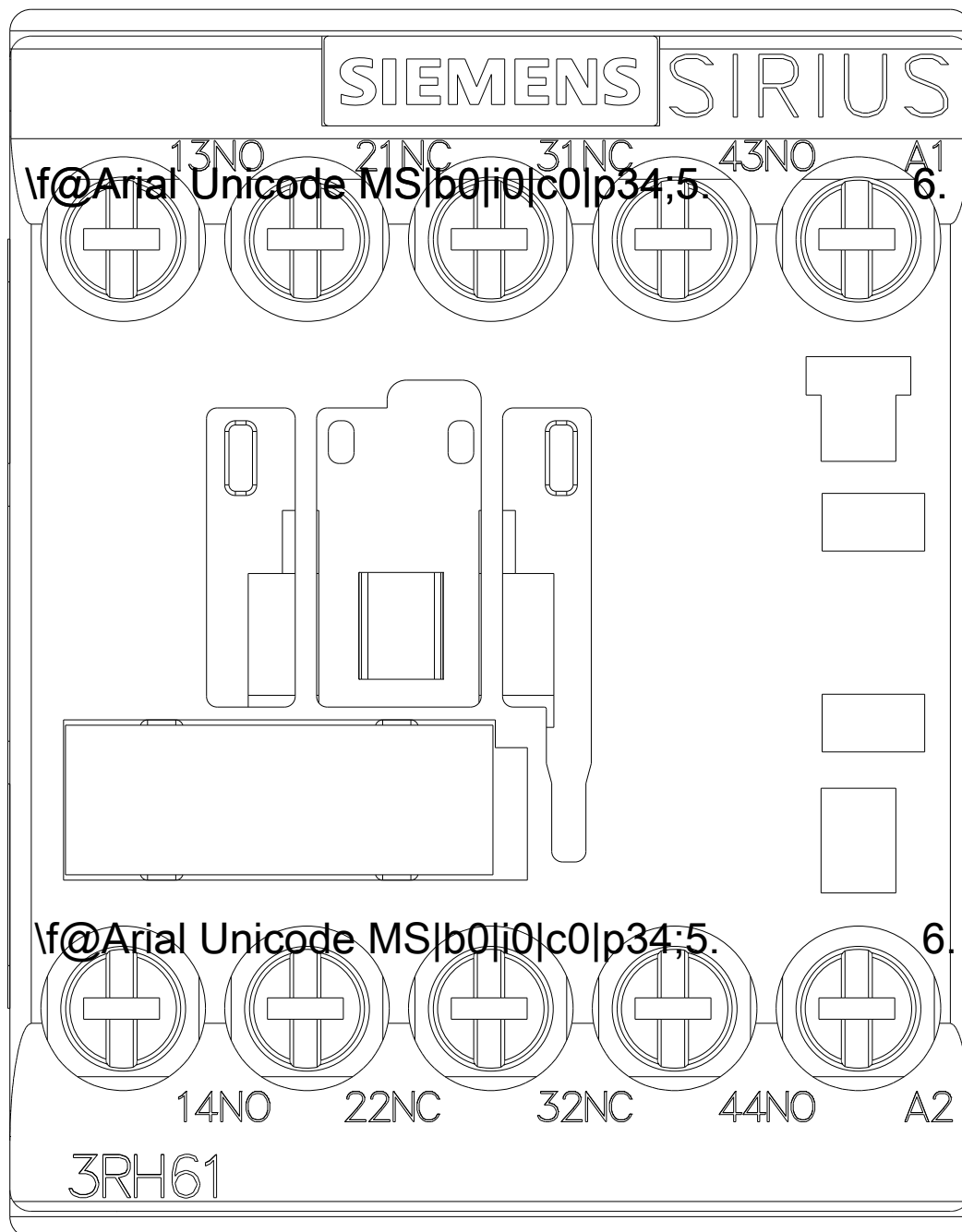
[Confirmation](#)

Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

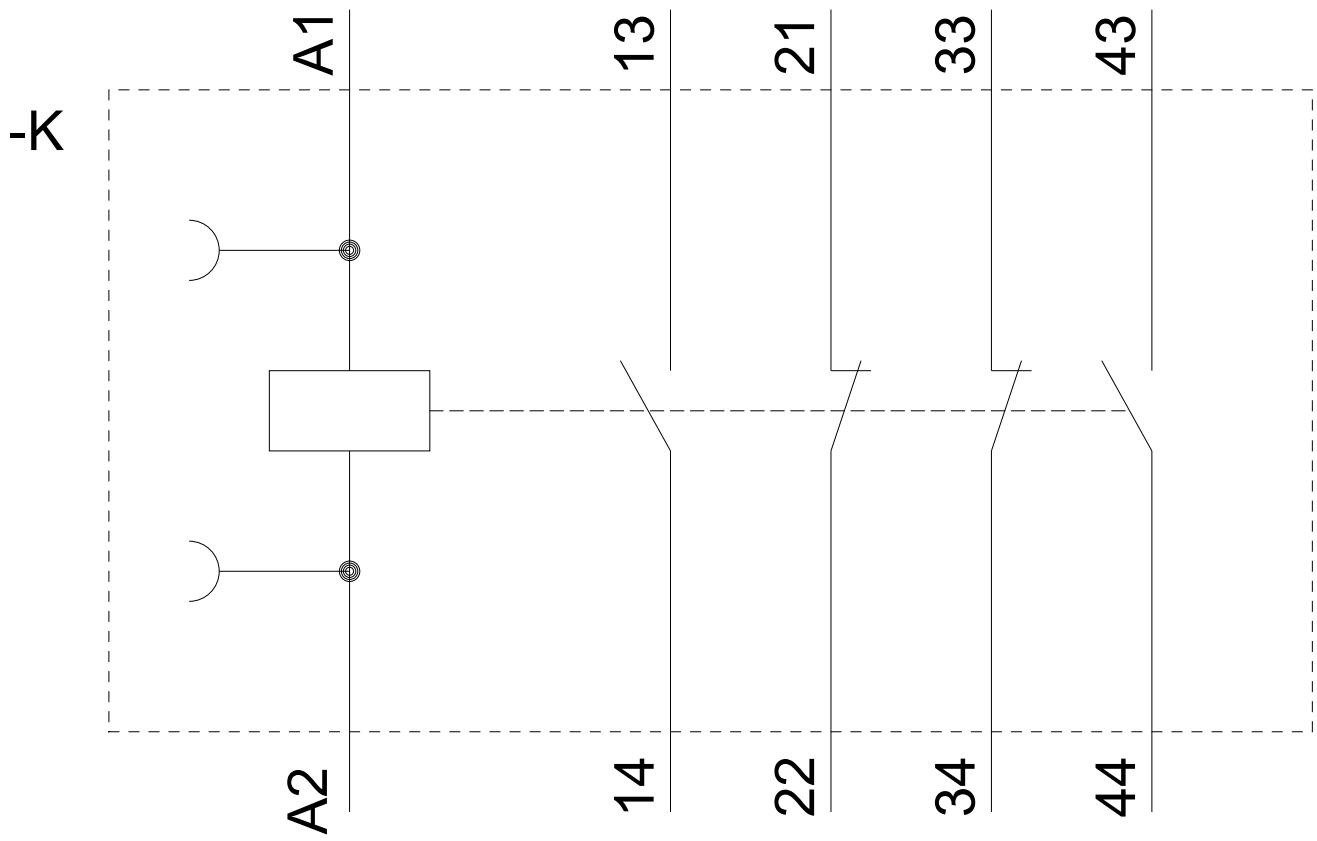
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last modified:

05/07/2019