SIEMENS

Data sheet 3RH6131-1BB40



Contactor relay, 3 NO + 1 NC, DC 24 V, 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
power loss [W] for rated value of the current without load current share typical	4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance at rectangular impulse	
● at DC	10 g / 5 ms, 5 g / 10 ms
shock resistance with sine pulse	
● at DC	15 g / 5 ms, 8 g / 10 ms
mechanical service life (operating cycles)	
● of contactor typical	30 000 000
● of the contactor with added auxiliary switch block typical	10 000 000
Substance Prohibitance (day/month/year)	05/01/2012
Net Weight	0.28 kg
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	DC
control supply voltage at DC rated value	24 V
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	3
identification number and letter for switching elements	31 E
operational current at AC-12 maximum	6 A
operational current at AC-15	

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● at 230 V rated value	10 A
● at 400 V rated value	3 A
● at 690 V rated value	1 A
operational 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
operational current with 2 current paths in series at DC-12	
● at 24 V rated value	6 A
● at 110 V rated value	4 A
● at 220 V rated value	2 A
operational current with 3 current paths in series at DC-12	
● at 24 V rated value	6 A
● at 110 V rated value	6 A
● at 220 V rated value	3.6 A
operating frequency at DC-12 maximum	1 000 1/h
operational current at 1 current path at DC-13	
● at 24 V rated value	6 A
● at 110 V rated value	1 A
● at 220 V rated value	0.3 A
operational current with 2 current paths in series at DC-13	
● at 24 V rated value	6 A
● at 110 V rated value	1.3 A
● at 220 V rated value	0.9 A
operational current with 3 current paths in series at DC-13	
● at 24 V rated value	6 A
● at 110 V rated value	3 A
● at 220 V rated value	1.2 A
operating frequency at DC-13 maximum	1 000 1/h
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
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
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	57.5 mm
width	45 mm
depth	73 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
● for auxiliary contacts	
— solid or stranded	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
● for AWG cables for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 2x 12
Safety related data	
product function positively driven operation according to IEC 60947-5-1	Yes
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	

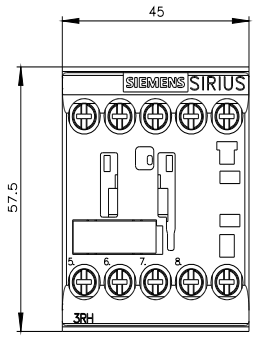
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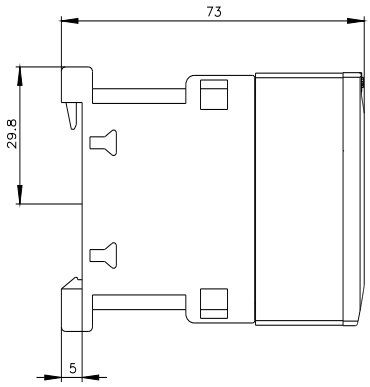
Confirmation

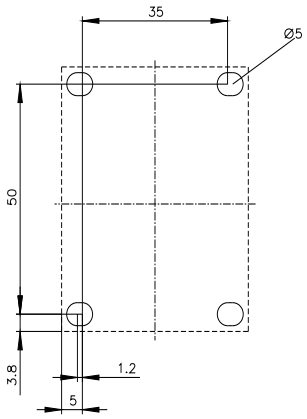
Maritime application	other		Dangerous goods	Environment
CCS (China Classification Society)	Confirmation	产品合格 QC PASS	Transport Information	Environmental Confirmations

Further information

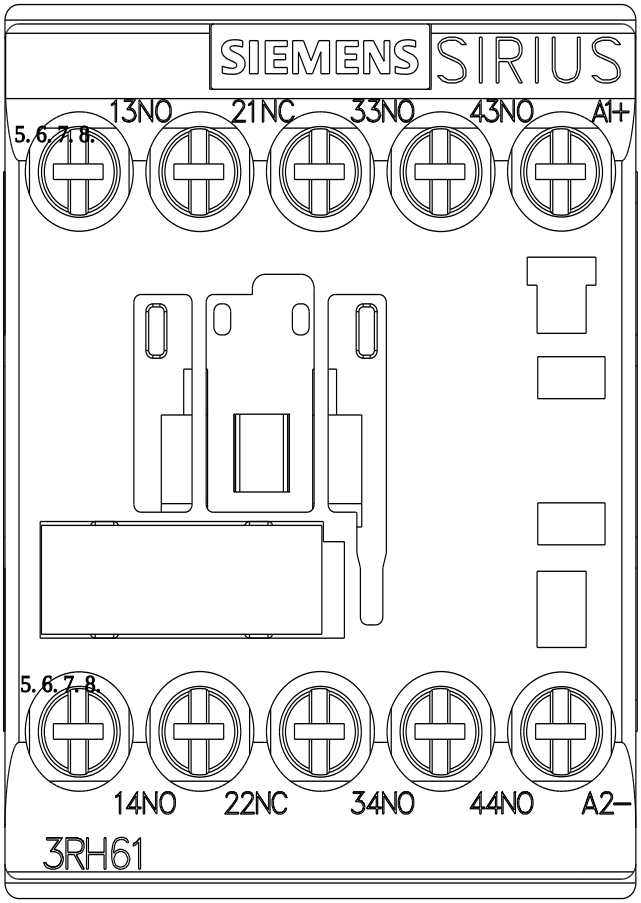
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
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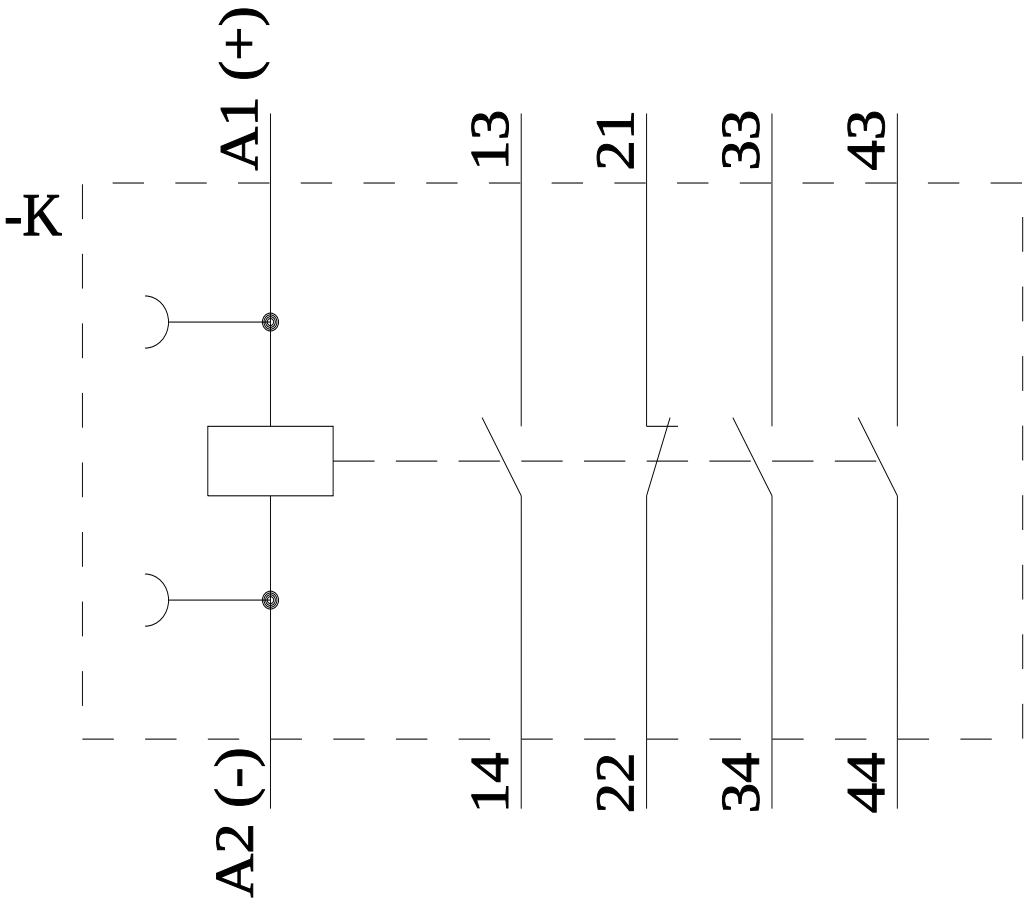






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