

COUPLING CONTACTOR RELAY, 4NO, DC 24V, 0.7...1.25*US, W/ INTEGRATED DIODE, SIZE S00, SCREW TERMINAL



product brand name	SIRIUS
Product designation	Coupling relay for switching auxiliary circuits
General technical data:	
Size of contactor	S00
Product expansion	No
<ul style="list-style-type: none"> Auxiliary switch 	No
Insulation voltage	690 V
<ul style="list-style-type: none"> with degree of pollution 3 Rated value 	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	IP20
<ul style="list-style-type: none"> on the front 	IP20
Degree of pollution	3
Shock resistance	
<ul style="list-style-type: none"> at rectangular impulse <ul style="list-style-type: none"> — at DC 	10g / 5 ms, 5g / 10 ms
<ul style="list-style-type: none"> with sine pulse <ul style="list-style-type: none"> — at DC 	15g / 5 ms, 8g / 10 ms
Mechanical service life (switching cycles)	30 000 000
<ul style="list-style-type: none"> of the contactor typical 	30 000 000

Equipment marking	
• acc. to DIN EN 61346-2	K
• acc. to DIN EN 81346-2	K

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
Operating range factor control supply voltage rated value of the magnet coil at DC	0.7 ... 1.25
Design of the surge suppressor	with diode
Closing power of the magnet coil at DC	2.8 W
Holding power of the magnet coil at DC	2.8 W
Closing delay	
• at DC	30 ... 100 ms
Opening delay	
• at DC	7 ... 13 ms
Arcing time	10 ... 15 s

Auxiliary circuit:

Number of NO contacts	
• for auxiliary contacts	4
— instantaneous contact	4
Identification number and letter for switching elements	40 E
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V Rated value	10 A
• at 400 V Rated value	3 A
• at 500 V Rated value	2 A
• at 690 V Rated value	1 A
Operating current at 1 current path at DC-12	
• at 24 V Rated value	10 A

<ul style="list-style-type: none"> • at 110 V Rated value • at 220 V Rated value • at 440 V Rated value • at 600 V Rated value 	<p>3 A</p> <p>1 A</p> <p>0.3 A</p> <p>0.15 A</p>
<p>Operating current with 2 current paths in series at DC-12</p> <ul style="list-style-type: none"> • at 24 V Rated value • at 60 V Rated value • at 110 V Rated value • at 220 V Rated value • at 440 V Rated value • at 600 V Rated value 	<p>10 A</p> <p>10 A</p> <p>4 A</p> <p>2 A</p> <p>1.3 A</p> <p>0.65 A</p>
<p>Operating current with 3 current paths in series at DC-12</p> <ul style="list-style-type: none"> • at 24 V Rated value • at 60 V Rated value • at 110 V Rated value • at 220 V Rated value • at 440 V Rated value • at 600 V Rated value 	<p>10 A</p> <p>10 A</p> <p>10 A</p> <p>3.6 A</p> <p>2.5 A</p> <p>1.8 A</p>
<p>Operating frequency at DC-12 maximum</p>	<p>1 000 1/h</p>
<p>Operating current at 1 current path at DC-13</p> <ul style="list-style-type: none"> • at 24 V Rated value • at 110 V Rated value • at 220 V Rated value • at 440 V Rated value • at 600 V Rated value 	<p>10 A</p> <p>1 A</p> <p>0.3 A</p> <p>0.14 A</p> <p>0.1 A</p>
<p>Operating current with 2 current paths in series at DC-13</p> <ul style="list-style-type: none"> • at 24 V Rated value • at 60 V Rated value • at 110 V Rated value • at 220 V Rated value • at 440 V Rated value • at 600 V Rated value 	<p>10 A</p> <p>3.5 A</p> <p>1.3 A</p> <p>0.9 A</p> <p>0.2 A</p> <p>0.1 A</p>
<p>Operating current with 3 current paths in series at DC-13</p> <ul style="list-style-type: none"> • at 24 V Rated value • at 60 V Rated value • at 110 V Rated value • at 220 V Rated value • at 440 V Rated value 	<p>10 A</p> <p>4.7 A</p> <p>3 A</p> <p>1.2 A</p> <p>0.5 A</p>

<ul style="list-style-type: none"> at 600 V Rated value 	0.26 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 the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600

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

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
Required spacing <ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> at the side for live parts <ul style="list-style-type: none"> at the side 	6 mm 6 mm

Connections/ Terminals:	
Type of electrical connection <ul style="list-style-type: none"> for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-section <ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> single or multi-stranded finely stranded with core end processing for AWG conductors for auxiliary contacts 	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x 4 mm ² 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 2x 12





Safety related data:	
B10 value with high demand rate acc. to SN 31920	1 000 000; With 0.3 x I _e
Proportion of dangerous failures <ul style="list-style-type: none"> with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 	40 % 73 %
Product function <ul style="list-style-type: none"> positively driven operation acc. to IEC 60947-5-1 	Yes






T1 value for proof test interval or service life acc. to IEC 61508

20 y

Certificates/ approvals:

General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
 CCC	 CSA	 UL		Baumusterbescheinigung	 EG-Konf.

Test Certificates	Shipping Approval				
Typprüfbescheinigung/Werkszeugnis	spezielle Prüfbescheinigung n	 ABS	 BUREAU VERITAS	 DNV	 GL

Shipping Approval	other				
 LRS	 PRS	 RINA	 RMRS	Umweltbestätigung	 VDE

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

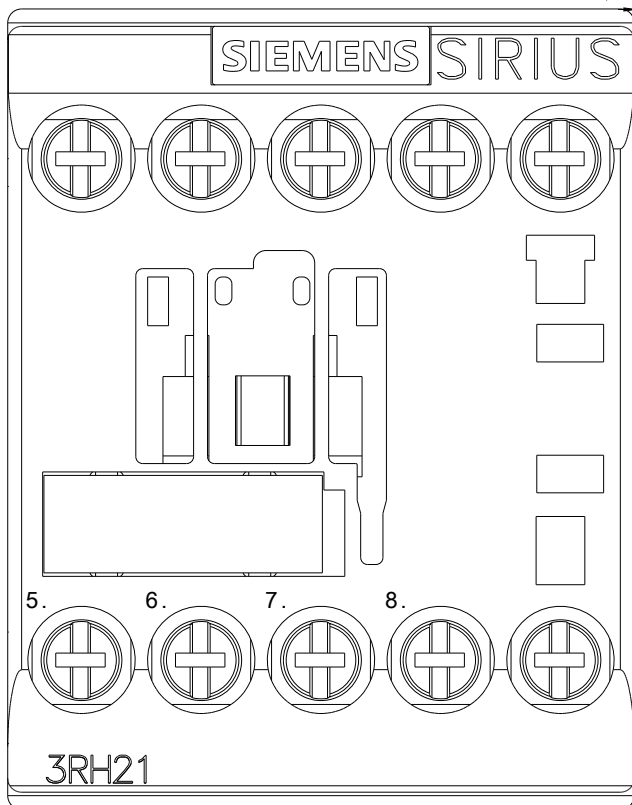
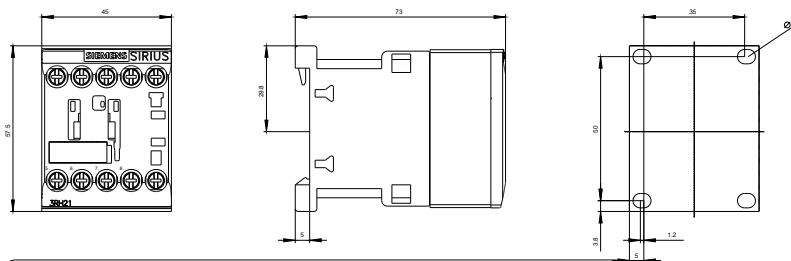
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH21401JB40>

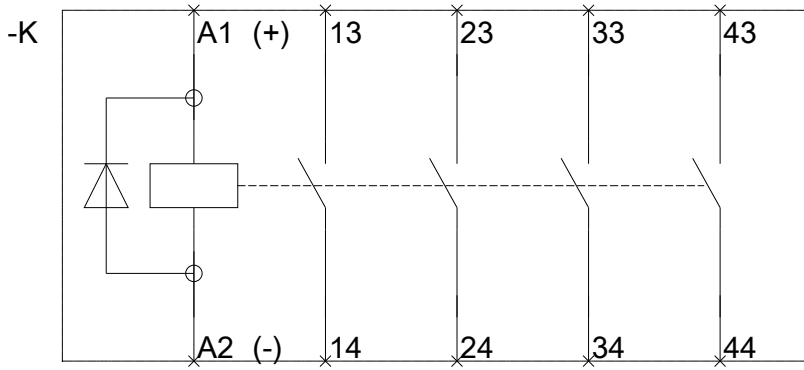
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RH21401JB40>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH21401JB40&lang=en





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