SIEMENS

Data sheet

3RH2122-1AB00

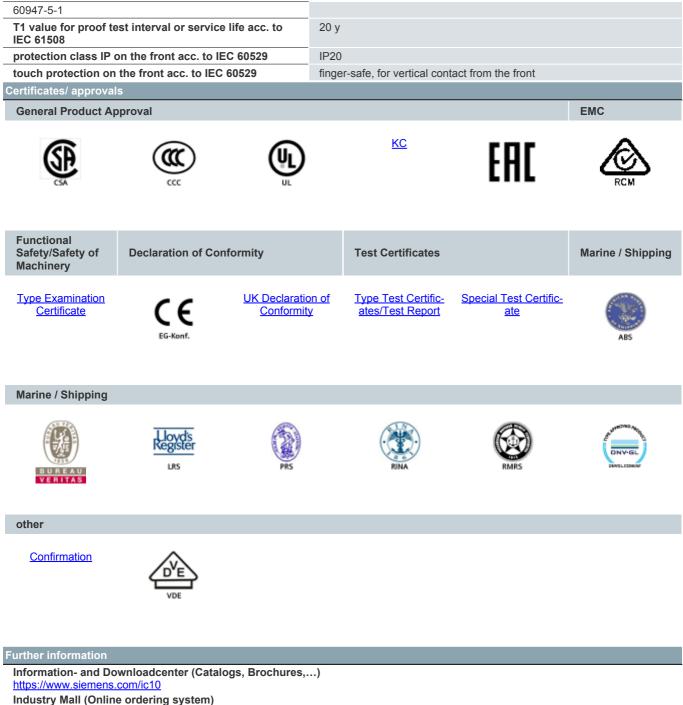


Contactor relay, 2 NO + 2 NC, 24 V AC, 50 / 60 Hz, Size S00, screw terminal

product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
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 electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code acc. to IEC 81346-2	К
Substance Prohibitance (Date)	01.10.2009 00:00:00
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	24 V
• at 60 Hz rated value	24 V
control supply voltage frequency	
• 1 rated value	50 Hz

	2011
2 rated value	60 Hz
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	0.25
coil	
closing delay	
• at AC	8 33 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
 instantaneous contact 	2
identification number and letter for switching	22 E
elements operational current at AC-12 maximum	10 A
· ·	IUA
operational 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	1A
operational current at 1 current path at DC-12	
• at 24 V rated value	10 A
• at 110 V rated value	3 A
at 220 V rated value	1 A
at 440 V rated value	0.3 A
 at 600 V rated value 	0.15 A
operational current with 2 current paths in series at	
DC-12	
 at 24 V rated value 	10 A
 at 60 V rated value 	10 A
 at 110 V rated value 	4 A
 at 220 V rated value 	2 A
at 440 V rated value	1.3 A
• at 600 V rated value	0.65 A
operational current with 3 current paths in series at DC-12	
at 24 V rated value	10 A
• at 60 V rated value	10 A
at 110 V rated value	10 A
• at 220 V rated value	3.6 A
• at 440 V rated value	2.5 A
• at 600 V rated value	1.8 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	10 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
• at 440 V rated value	0.14 A
● at 600 V rated value	0.1 A
operational current with 2 current paths in series at	
DC-13	10.4
 at 24 V rated value 	10 A

 at 60 V rated value 	3.5 A
 at 110 V rated value 	1.3 A
 at 220 V rated value 	0.9 A
 at 440 V rated value 	0.2 A
• at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
 at 24 V rated value 	10 A
 at 60 V rated value 	4.7 A
 at 110 V rated value 	3 A
 at 220 V rated value 	1.2 A
 at 440 V rated value 	0.5 A
 at 600 V rated value 	0.26 A
operating frequency at DC-13 maximum	1 000 1/h
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
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Installation/ mounting/ dimensions	
	+/-180° rotation possible on vertical mounting surface; can be tilted
mounting position	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	57.5 mm
width	45 mm
depth	73 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
	10 mana
— upwards	10 mm
— upwards — at the side	6 mm
•	
— at the side	6 mm
— at the side — downwards	6 mm
 — at the side — downwards • for live parts 	6 mm 10 mm
 at the side downwards for live parts forwards 	6 mm 10 mm 10 mm
 at the side downwards for live parts forwards upwards 	6 mm 10 mm 10 mm
 at the side downwards for live parts forwards upwards downwards 	6 mm 10 mm 10 mm 10 mm
 at the side downwards for live parts forwards upwards downwards at the side 	6 mm 10 mm 10 mm 10 mm
 at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals	6 mm 10 mm 10 mm 10 mm 6 mm
 at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit	6 mm 10 mm 10 mm 10 mm 6 mm
 at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	6 mm 10 mm 10 mm 10 mm 6 mm
 at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections for auxiliary contacts 	6 mm 10 mm 10 mm 10 mm 10 mm 6 mm screw-type terminals
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 at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of auxiliary contacts solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts 	6 mm 10 mm 10 mm 10 mm 10 mm 6 mm screw-type terminals 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)
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https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2122-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-1AB00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1AB00

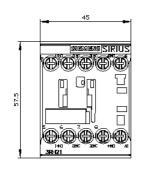
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

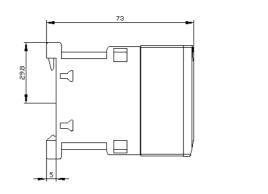
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-1AB00&lang=en

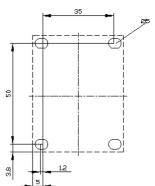
Characteristic: Tripping characteristics, I²t, Let-through current

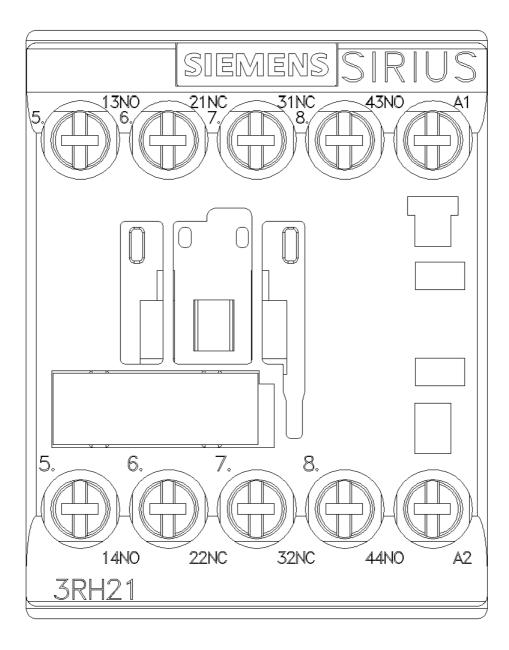
https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1AB00/char

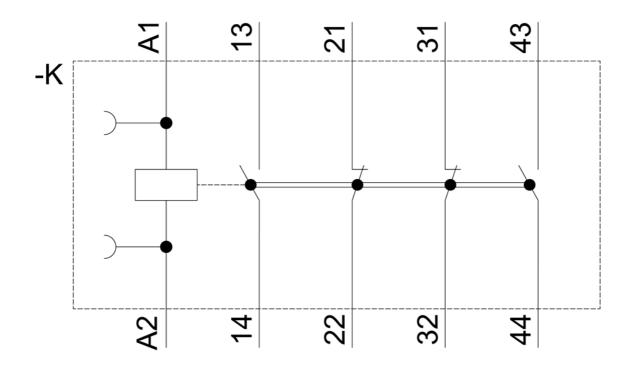
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-1AB00&objecttype=14&gridview=view1











last modified:

12/15/2020 🖸