SIEMENS

Data sheet 3RH2122-2AF00



Contactor relay, 2 NO + 2 NC, 110 V AC, 50 / 60 Hz, Size S00, Spring-type 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	K	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
 ambient temperature during operation 	-25 +60 °C	
ambient temperature during storage	-55 +80 °C	
Main circuit		
no-load switching frequency		
● at AC	40,000,411	
	10 000 1/h	
• at DC	10 000 1/h 10 000 1/h	
at DC Control circuit/ Control		
Control circuit/ Control	10 000 1/h	
Control circuit/ Control type of voltage of the control supply voltage	10 000 1/h	
type of voltage of the control supply voltage control supply voltage at AC	10 000 1/h AC	
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	10 000 1/h AC 110 V	
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value	10 000 1/h AC 110 V	
type of voltage of the control supply voltage control supply voltage at AC	10 000 1/h AC 110 V 110 V	

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
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 elements	22 E
operational current at AC-12 maximum	10 A
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	1 A
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	
• at 24 V rated value	10 A
at 60 V rated value	3.5 A



a ti 110 V rated value a ti 440 V rated value 0 2 A at 600 V rated value 0 2 A at 600 V rated value 0 2 A at 600 V rated value 0 2 A at 600 V rated value 0 2 A at 600 V rated value 0 2 A at 600 V rated value 0 3 A at 24 V rated value 0 4 7 A at 120 V rated value 0 2 A at 600 V rated value 0 3 A at 240 V rated value 0 4 7 A at 400 V rated value 0 5 A at 600 V rated value 0 5 A at 600 V rated value 0 6 A at 600 V rated value 0 7 A at 600 V rated value 0 8 A at 600 V rated value 0 9 A at 600 V rated value 0 1 2 A at 600 V rated value 0 1 0 00 //h at 600 V rated value 0 1 0 00 //h at 600 V rated value 0 1 0 00 //h at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 1 0 A at 600 V rated value 0 A at 600 V rate		
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a 12 4 V rated value at 60 V rated value 4.7 A at 110 V rated value 3 A at 24 V rated value 3 A at 24 V rated value 3 A at 20 V rated value 3 A at 20 V rated value 3 A 0.26 A 0.27 A ratings contact reliability of auxiliary contacts 1 000 0 rh design of the miniature circuit breaker for short-circuit protection of the auxiliary contact according to UL Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position 4/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +½-22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail height 70 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting — forwards — upwards — odownwards — 10 mm — upwards — odownwards — 10 mm — odownwards — 10 mm — upwards — of morads — 10 mm — upwards — of morads — 10 mm — upwards — of morads — 10 mm — upwards — ownwards — 10 mm — ownwards — ow	at 600 V rated value	0.1 A
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Installation/ mounting/ dimensions mounting position	Short-circuit protection	
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required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — the side — downwards • for live parts — forwards — upwards — upwards — upwards — the side — downwards — the side — downwards — at the side — forwards — the side —		45 mm
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — 10 mm • for live parts — forwards — upwards — at the side — downwards — the side — forwards — upwards — the side — downwards — the side — formatis — to mm Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded 2x (0,5 4 mm²)		73 mm
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type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded 2x (0,5 4 mm²)	37 37 37 37 37 37 37 37 37 37 37 37 37 3	V IIIII
type of connectable conductor cross-sections		anring leaded terminals
 ◆ for auxiliary contacts — solid or stranded 2x (0,5 4 mm²) 		spring-loaded terminals
— solid or stranded 2x (0,5 4 mm²)		
	-	2v (0.5 4 mm²)
— linely stranged with core end processing 2x (0.5 2.5 mm²)		
— finely stranded without core end processing 2x (0.5 2.5 mm²)		
• at AWG cables for auxiliary contacts 2x (20 12)		ZX (ZU 1Z)
Safety related data		4 000 000 1489 0 0 1
B10 value with high demand rate acc. to SN 31920 1 000 000; With 0.3 x le		1 000 000; With 0.3 x le
proportion of dangerous failures		40.07
• with low demand rate acc. to SN 31920 40 %		
• with high demand rate acc. to SN 31920 73 %		
failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT		
product function positively driven operation acc. to IEC Yes	product function positively driven operation acc. to IEC	Yes



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

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. to IEC 60529

finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval









<u>KC</u>



EMC

Declaration of Conformity

Test Certificates

Marine / Shipping





<u>Miscellaneous</u>

Type Test Certificates/Test Report Special Test Certificate



Marine / Shipping













other

Confirmation



Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2122-2AF00

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH2122-2AF00}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AF00

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

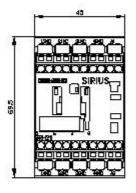
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-2AF00&lang=en

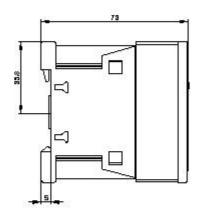
Characteristic: Tripping characteristics, I2t, Let-through current

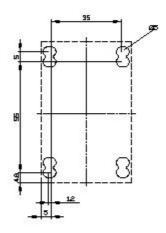
https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AF00/char

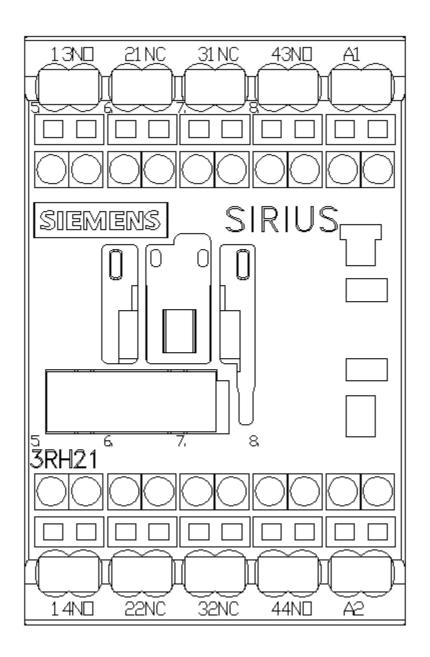
Further characteristics (e.g. electrical endurance, switching frequency)

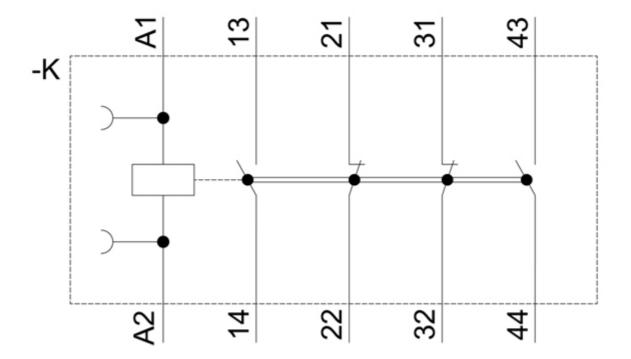
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RH2122-2AF00\&objecttype=14\&gridview=view1}$











last modified: 12/15/2020 🖸