## SIEMENS

## Data sheet

## 3RH2122-1AP00

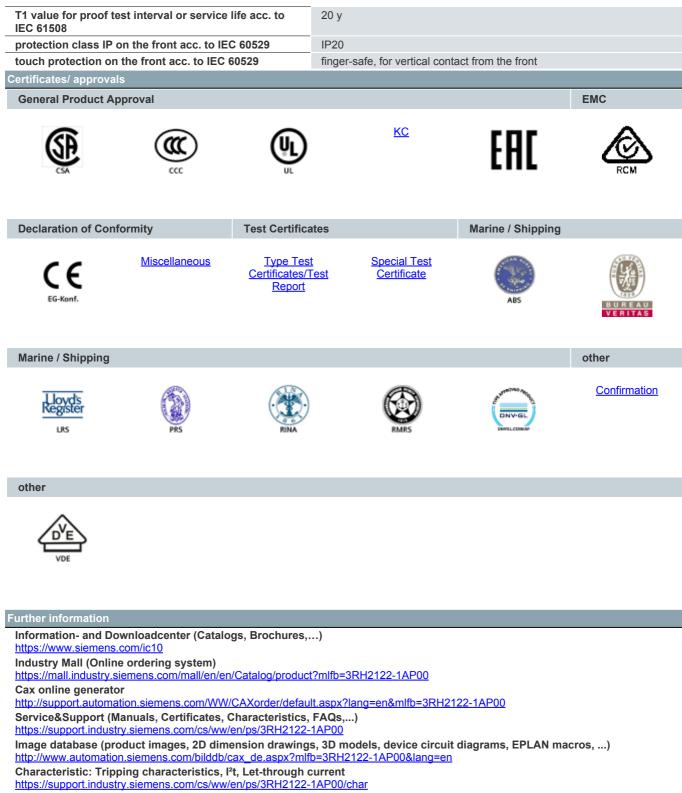


Contactor relay, 2 NO + 2 NC, 230 V AC, 50 / 60 Hz, Size S00, screw terminal

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)		
<ul> <li>of contactor typical</li> </ul>	30 000 000	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C	
ambient temperature 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	230 V	
• at 60 Hz rated value	230 V	
control supply voltage frequency		
• 1 rated value	50 Hz	
• 2 rated value	60 Hz	

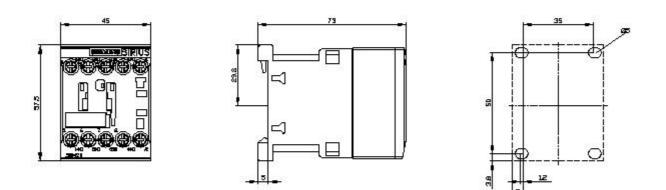
operating range factor control supply voltage rated value of magnet coil at AC0.8.1• • • • • • • • • • • • • • • • • • •		
• #10 Hz0 #511apparent pick-up over of angent coil at AC37 V Ainductive power factor with closing power of the coll0.8apparent holding power of magnet coil at AC5.7 V Ainductive power factor with the holding power of the0.25coll0.3 m mcoll0.15 m mcoll015 m mextra power factor with the holding power of the015 mextra power factor with the holding power of the015 mextra power factor with the holding power of the015 mextra power factor with the holding power of the015 mextra power factor with the holding power of the015 mextra power factor with the holding power of the015 mextra power factor with the holding power of the015 mextra power factor with closing power of the015 mextra power factor with closing power of the0.015 mextra power factor with closing power factor with clos		
apparent blck-up power of magnet coll at AC         37 V A           Inductive power factor with biclosing power of the coll         0.8           inductive power factor with biclosing power of the coll         0.5 7 V A           closing delay         0.25           • it AC         833 ms           • et AC         833 ms           • et AC         415 ms           • arcing time         1015 ms           Availary closit         2           • instantaneous contact         10 A           operational current at AC-12 maximum         10 A           operational current at AC-12 maximum         10 A           • at 20 V rated value         10 A           • at 20 V rated value	• at 50 Hz	0.8 1.1
Inductive power factor with dosing power of the coll     0.8       apparent holding power of magnet coll at AC     5.7 V.A       Inductive power factor with the holding power of the coll     0.25       coll     0.8     3.7 V.A       Inductive power factor with the holding power of the coll     0.25       coll     0.15 ms       Archary priceut     1015 ms       arcing time     1015 ms       Anxilary priceut     2       number of NC contacts for auxillary contacts     2       instainaneous contact     2       dentification number and letter for switching elements     22       elements     10.A       operational current at AC-15     7       eit 3600 V rated value     10.A       operational current at AC-16     7       eit 3600 V rated value     10.A       operational current at AC-16     7       eit 3600 V rated value     10.A       operational current at AC-16     7       eit 3600 V rated value     10.A       operational current at AC-16     7       eit 3600 V rated value     10.A       operational current at AC-16     7       eit 3600 V rated value     10.A       eit 3600 V rated value     10.A       eit 3600 V rated value     10.A       eit 3600 V rated value	• at 60 Hz	0.85 1.1
epperath holding power of magnet coil at AC         57 V/A           Inductive power factor with the holding power of the oil         0.25           closing delay         0.25           • at AC         833 ms           opening delay         0.15 ms           • at AC         915 ms           • atricing time         1015 ms           Auxiliary circuit         2           • instantaneous contact         2           • at 200 V rated value         3A           • at 200 V rated va	apparent pick-up power of magnet coil at AC	37 V·A
Inductive power factor with the holding power of the oil         0.25           cleaing delay • st AC         833 ms           opening delay • st AC         415 ms           arcing time         1015 ms           Auxiliary vircuit         1015 ms           number of NC contacts for auxiliary contacts         2           • instantaneous contact         2           operational current at AC-12 maximum         0A           operational current at A C-12 maximum         1A           operational current at A C-12 maximum         0	inductive power factor with closing power of the coil	0.8
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• at 600 V rated value0.65 Aoperational current with 3 current paths in series at DC-120• at 24 V rated value10 A• at 60 V rated value10 A• at 10 V rated value10 A• at 110 V rated value3.6 A• at 220 V rated value2.5 A• at 60 V rated value1.8 Aoperating frequency at DC-12 maximum1000 1/hoperating a current at 1 current path at DC-1310 A• at 24 V rated value1.8 A• at 24 V rated value1.0 A• at 24 V rated value0.3 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A	<ul> <li>at 220 V rated value</li> </ul>	2 A
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DC-12• at 24 V rated value10 A• at 60 V rated value10 A• at 110 V rated value10 A• at 220 V rated value3.6 A• at 440 V rated value2.5 A• at 600 V rated value1.8 Aoperating frequency at DC-12 maximum1000 1/hoperational current at 1 current path at DC-131• at 220 V rated value0.3 A• at 24 V rated value0.14 A• at 600 V rated value0.14 A• at 24 V rated value0.14 A• at 24 V rated value0.10 A	<ul> <li>at 600 V rated value</li> </ul>	0.65 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>berating frequency at DC-12 maximum</li> <li>1 000 1/h</li> <li>operational current at 1 current path at DC-13         <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>berational current at 1 current path at DC-13             <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>berational current with 2 current paths in series at DC-13</li></ul></li></ul></li></ul>		
• at 110 V rated value10 A• at 220 V rated value3.6 A• at 440 V rated value2.5 A• at 600 V rated value1.8 Aoperating frequency at DC-12 maximum1 000 1/hoperational current at 1 current path at DC-13-• at 24 V rated value10 A• at 220 V rated value0.3 A• at 220 V rated value0.14 A• at 600 V rated value0.14 A• at 600 V rated value10 A	• at 24 V rated value	10 A
• at 220 V rated value3.6 A• at 440 V rated value2.5 A• at 600 V rated value1.8 Aoperating frequency at DC-12 maximum1 000 1/hoperational current at 1 current path at DC-13-• at 24 V rated value10 A• at 24 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 A• at 24 V rated value0.1 A• at 24 V rated value10 A• at 24 V rated value0.1 A• at 24 V rated value0.1 A• at 24 V rated value10 A	• at 60 V rated value	
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>2.5 A</li> <li>at 600 V rated value</li> <li>1.8 A</li> <li>operating frequency at DC-12 maximum</li> <li>1 000 1/h</li> <li>operational current at 1 current path at DC-13         <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>at 220 V rated value</li> <li>3 A</li> <li>0.1 A</li> <li>at 440 V rated value</li> <li>0.1 A</li> </ul> </li> <li>operational current with 2 current paths in series at DC-13         <ul> <li>at 24 V rated value</li> <li>10 A</li> </ul> </li> </ul>	• at 110 V rated value	
• at 600 V rated value1.8 Aoperating frequency at DC-12 maximum1 000 1/hoperational current at 1 current path at DC-13I• at 24 V rated value10 A• at 24 V rated value1 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 A• at 600 V rated value10 A	• at 220 V rated value	3.6 A
operating frequency at DC-12 maximum1 000 1/hoperational current at 1 current path at DC-13• at 24 V rated value10 A• at 110 V rated value1 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 Aoperational current with 2 current paths in series at DC-13• at 24 V rated value10 A		
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       0.14 A         • at 600 V rated value       10 A		
• at 24 V rated value10 A• at 110 V rated value1 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 Aoperational current with 2 current paths in series at DC-1310 A		1 000 1/h
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>0.14 A</li> <li>0.1 A</li> </ul> operational current with 2 current paths in series at DC-13 <ul> <li>at 24 V rated value</li> <li>10 A</li> </ul>		
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>0.14 A</li> <li>0.1 A</li> <li>0perational current with 2 current paths in series at DC-13         <ul> <li>at 24 V rated value</li> <li>10 A</li> </ul> </li> </ul>		
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>0.14 A</li> <li>0.1 A</li> <li>operational current with 2 current paths in series at DC-13         <ul> <li>at 24 V rated value</li> <li>10 A</li> </ul> </li> </ul>		
• at 600 V rated value     0.1 A       operational current with 2 current paths in series at DC-13     10 A		
operational current with 2 current paths in series at DC-13       10 A		
• at 24 V rated value 10 A		0.1 A
	DC-13	
• at 60 V rated value 3.5 A		
	• at 60 V rated value	3.5 A

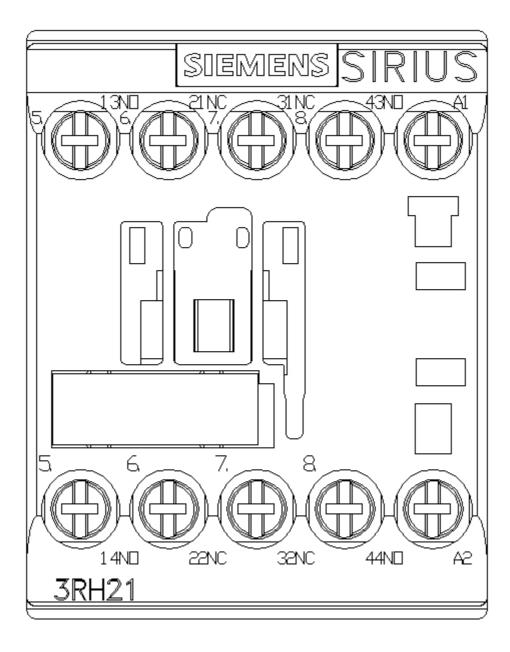
<ul> <li>at 110 V rated value</li> </ul>	1.3 A
<ul> <li>at 220 V rated value</li> </ul>	0.9 A
<ul> <li>at 440 V rated value</li> </ul>	0.2 A
• at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 60 V rated value</li> </ul>	4.7 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 220 V rated value</li> </ul>	1.2 A
<ul> <li>at 440 V rated value</li> </ul>	0.5 A
<ul> <li>at 600 V rated value</li> </ul>	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
	10007 0000
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	
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 standard mounting rail
height	57.5 mm
width	45 mm
depth	73 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— upwards — at the side	6 mm
— downwards	10 mm
• for live parts	10
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	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 le
proportion of dangerous failures	
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
60947-5-1	

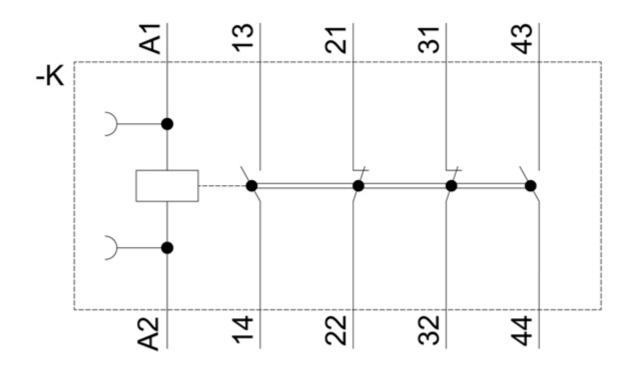


Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-1AP00&objecttype=14&gridview=view1







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