## SIEMENS

## Data sheet

## 3RH2122-2AP00



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

and the formula serves	
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 according to IEC 81346-2	К
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>ambient temperature</li><li>during operation</li></ul>	-25 +60 °C
-	-25 +60 °C -55 +80 °C
during operation	
<ul><li>during operation</li><li>during storage</li></ul>	-55 +80 °C
during operation     ouring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30	-55 +80 °C 10 %
during operation     ouring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum	-55 +80 °C 10 %
during operation     oduring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	-55 +80 °C 10 %
• during operation     • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit no-load switching frequency	-55 +80 °C 10 % 95 %
• during operation     • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency  • at AC	-55 +80 °C 10 % 95 % 10 000 1/h
• during operation     • during storage     relative humidity minimum     relative humidity at 55 °C according to IEC 60068-2-30     maximum Main circuit no-load switching frequency     • at AC     • at DC	-55 +80 °C 10 % 95 % 10 000 1/h
• during operation     • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency  • at AC  • at DC  Control circuit/ Control	-55 +80 °C 10 % 95 % 10 000 1/h 10 000 1/h
• during operation     • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency     • at AC     • at DC  Control circuit/ Control  type of voltage of the control supply voltage	-55 +80 °C 10 % 95 % 10 000 1/h 10 000 1/h
• during operation     • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  no-load switching frequency     • at AC     • at DC  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage at AC	-55 +80 °C 10 % 95 % 10 000 1/h 10 000 1/h AC

50 Hz
60 Hz
0.8 1.1
0.85 1.1
37 VA
0.8
5.0 5.7 VA
0.25
0.20
8 33 ms
4 15 ms
10 15 ms
2
2
2
2
22 E
10 A
10 A
3 A
2 A
1 A
10 A
3 A
1 A
0.3 A
0.15 A
10 A
10 A
4 A
2 A
1.3 A
0.65 A
10 A
10 A
10 A
3.6 A
2.5 A
1.8 A
1 000 1/h
10 A
1 A
0.3 A
0.14 A
0.1 A
10 A

	0.5.4			
• 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 24 V lated value     at 60 V rated value	4.7 A			
at 110 V rated value	3 A			
at 220 V rated value	1.2 A			
at 220 V rated value	1.2 A 0.5 A			
at 600 V rated value	0.5 A 0.26 A			
operating frequency at DC-13 maximum	0.26 A 1 000 1/h			
design of the miniature circuit breaker for short-circuit	C characteristic: 6 A; 0.4 kA			
protection of the auxiliary circuit up to 230 V				
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	fuse gL/gG: 10 A			
auxiliary switch required	IUSE 9E190. TO A			
Installation/ mounting/ dimensions				
mounting position	+/-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	70 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			
<ul> <li>for grounded parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
• for live parts				
— 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	spring-loaded terminals			
type of connectable conductor cross-sections				
for auxiliary contacts				
— solid or stranded	2x (0,5 4 mm²)			
— finely stranded with core end processing	2x (0,5 2.5 mm <sup>2</sup> )			
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )			
at AWG cables for auxiliary contacts	2x (20 12)			
Safety related data				
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le			
proportion of dangerous failures	1 000 000, Will 0.0 X IC			
with low demand rate according to SN 31920	40 %			
<ul> <li>with how demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	73 %			
failure rate [FIT] with low demand rate according to SN 31920	100 FIT			
T1 value for proof test interval or service life according to	20 y			
i i value ioi provi test interval or service lite according to				

IEC 61508							
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				
Certificates/ approval	s						
General Product Approval							
	CCC	<u>Confirmatio</u>		<u>KC</u>	EHC		
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates			
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>		
Marine / Shipping							
ABS	BUREAU VERITAS		Llovd's Register uts	PRS	RINA		
Marine / Shipping	other						
RMRS	<u>Confirmation</u>	UDE VDE					
Further information							

## 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=3RH2122-2AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-2AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AP00

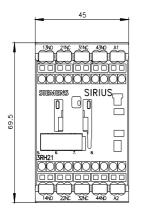
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2122-2AP00&lang=en

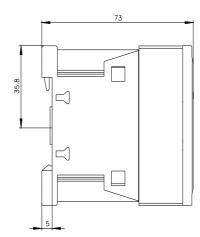
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

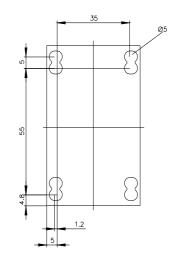
https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AP00/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2AP00&objecttype=14&gridview=view1







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