## SIEMENS

## Data sheet

## 3RH2122-1AT60

	Contractor relay $2 NO \pm 2 NC 600 V/AC 60 Hz Size S00 percent terminal$			
	Contactor relay, 2 NO + 2 NC, 600 V AC, 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	· , • g · • · · · • , • , • g · · • · · •			
• at AC	11,4g / 5 ms, 7,3g / 10 ms			
mechanical service life (operating cycles)				
of contactor typical	30 000 000			
<ul> <li>of the contactor with added electronically optimized</li> </ul>	5 000 000			
auxiliary switch block typical				
<ul> <li>of the contactor with added auxiliary switch block</li> </ul>	10 000 000			
typical				
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>during operation</li> </ul>	-25 +60 °C			
during storage	-55 +80 °C			
relative humidity minimum	10 %			
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %			
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 60 Hz rated value	600 V			
control supply voltage frequency				
• 2 rated value	60 Hz			
operating range factor control supply voltage rated				
value of magnet coil at AC				
• at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC	37 VA			
inductive power factor with closing power of the coil	0.8			
apparent holding power of magnet coil at AC	5.7 VA			
inductive power factor with the holding power of the	0.25			
coil				
closing delay	9 22 mg			
• at AC	8 33 ms			
opening delay • at AC	4 15 ms			
• at AC arcing time	4 15 ms 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
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	1A
• 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	0.10 A
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	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 60 V rated value</li> </ul>	10 A
<ul> <li>at 110 V rated value</li> </ul>	10 A
<ul> <li>at 220 V rated value</li> </ul>	3.6 A
<ul> <li>at 440 V rated value</li> </ul>	2.5 A
<ul> <li>at 600 V rated value</li> </ul>	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
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
<ul> <li>at 440 V rated value</li> </ul>	0.14 A
<ul> <li>at 600 V rated value</li> </ul>	0.1 A
operational current with 2 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>	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
<ul> <li>at 600 V rated value</li> </ul>	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
• at 110 V rated value	3 A
<ul> <li>at 220 V rated value</li> </ul>	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	fuse gL/gG: 10 A
design of the fuse link for short-circuit protection of the	IUSE YL/YO. IV A

auxiliary switch req	uired						
Installation/ mounti	ng/ dimensions						
mounting position	1			ssible on vertical mounting sur			
			forward and backward by +/- 22.5° on vertical mounting surface				
fastening method			screw and snap-on mounting onto 35 mm DIN rail				
height			57.5 mm				
width			45 mm				
depth			73 mm				
required spacing							
<ul> <li>with side-by-</li> </ul>	side mounting						
— forwards	S		10 mm				
— upwards	5		10 mm				
— downwa	ards		10 mm				
— at the si	de		0 mm				
<ul> <li>for grounded</li> </ul>	parts						
— forwards	S		10 mm				
— upwards	3		10 mm				
— at the si	de		6 mm				
— downwa	ards		10 mm				
<ul> <li>for live parts</li> </ul>							
— forwards	S		10 mm				
— upwards			10 mm				
— downwa			10 mm				
— at the si			6 mm				
Connections/ Term							
	nnection for auxiliary and		screw-type terminals				
	e conductor cross-sec	tions					
<ul> <li>for auxiliary of</li> </ul>							
— solid or			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²				
-	randed with core end proc	cessing		), 2x (0.75 2.5 mm²)			
<ul> <li>at AWG cable</li> </ul>	es for auxiliary contacts		2x (20 16), 2x (1	8 14), 2x 12			
Safety related data							
product function po IEC 60947-5-1	sitively driven operation a	iccording to	Yes				
B10 value with high	n demand rate according f	o SN 31920	1 000 000; With 0.3 x le				
proportion of dan	gerous failures						
<ul> <li>with low dem</li> </ul>	and rate according to SN	31920	40 %				
<ul> <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 IEC 61508			20 a				
protection class II 60529	protection class IP on the front according to IEC 60529			IP20			
touch protection of	on the front according to	DIEC 60529	finger-safe, for vert	ical contact from the front			
Certificates/ approv	/als						
General Product							
General Product	Арргочаг						
	-	Confirment	-	KO			
(SP)		<u>Confirmatio</u>		) KC	EHC		
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates			
Ø	Type Examination Certificate	CE		Special Test Certific ate	<u>Type Test Certific-</u> ates/Test Report		
RCM		EG-Konf.	CF	-			

Marine / Shipping



Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RH2122-1AT60 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-1AT60 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1AT60 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/cs/ww/en/ps/3RH2122-1AT60&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-1AT60/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-1AT60&objecttype=14&gridview=view1

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