## SIEMENS

## Data sheet

## 3RH2122-4AG60



Contactor relay, 2 NO + 2 NC, 100 V AC, 50 Hz, 100 .. 110 V, 60 Hz, Size S00, ring cable lug connection

www.du.of.lawa.u.e.wo	
product brand name	SIRIUS Auviliant contector
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>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 50 Hz rated value	100 V
● at 60 Hz rated value	100 110 V
control supply voltage frequency	

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

<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				
• 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				
• 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					
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					
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	ring terminal lug connection				
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	40.9/				
with low demand rate according to SN 31920     with high demand rate according to SN 21020	40 %				
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	73 % 100 FIT				
T1 value for proof test interval or service life according to IEC 61508	20 у				
protection class IP on the front according to IEC 60529	IP00				
Certificates/ approvals					
General Product Approval					

(SP)		<u>Confirmation</u>	(UL) UL	<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyds Register urs	PRS	RINA	
Marine / Shipping	other					
RMRS	<u>Confirmation</u>					
Eurther 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=3RH2122-4AG60         Cax online generator         http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-4AG60         Service&Support (Manuals, Certificates, Characteristics, FAQs,)         https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-4AG60         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-4AG60⟨=en         Characteristic: Tripping characteristics, I²t, Let-through current         https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-4AG60         Further characteristics (e.g. electrical endurance, switching frequency)         http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-4AG60&objecttype=14&gridview=view1						
last modified: 1/26/2022 C						