## SIEMENS

## Data sheet

## 3RH2422-1AB00

Contactor relay, latched, 2 NO + 2 NC, 24 V AC, 50 / 60 Hz, Size S00, screw terminal



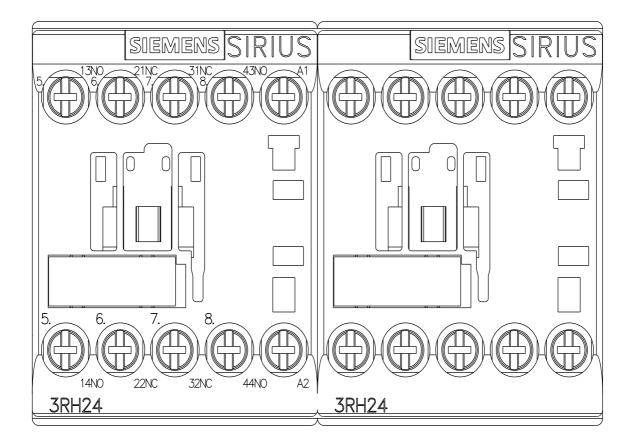
product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated 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>	5 000 000
<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>	5 000 000
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	24 V
at 60 Hz rated value	24 V
control supply voltage frequency	

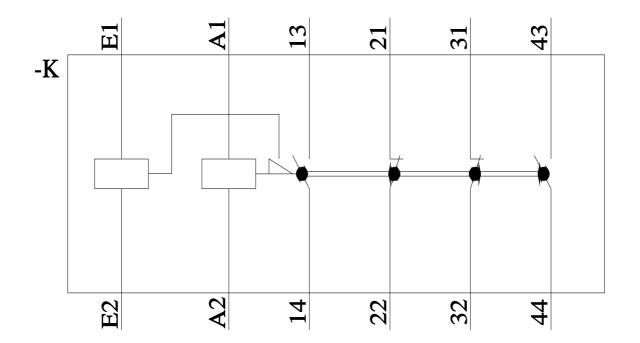
50 Hz
60 Hz
0.8 1.1
0.85 1.1
37 VA
0.8
5.0 5.7 VA
0.25
0.20
8 33 ms
4 15 ms
10 15 ms
2
2
2
2
22 E
10 A
10 A
3 A
2 A
1 A
10 A
3 A
1 A
0.3 A
0.15 A
10 A
10 A
4 A
2 A
1.3 A
0.65 A
10 A
10 A
10 A
3.6 A
2.5 A
1.8 A
1 000 1/h
10 A
1 A
0.3 A
0.14 A
0.1 A
10 A

a at COV retail value				
	3.5 A 1.3 A			
	).9 A			
	).2 A			
	).1 A			
operational current with 3 current paths in series at				
DC-13				
• at 24 V rated value	10 A			
• at 60 V rated value 4	4.7 A			
• at 110 V rated value 3	3 A			
• at 220 V rated value 1	1.2 A			
• at 440 V rated value 0	0.5 A			
at 600 V rated value	0.26 A			
	l 000 1/h			
design of the miniature circuit breaker for short-circuit C protection of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA			
	faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
	A600 / Q600			
contact rating of auxiliary contacts according to UL A Short-circuit protection				
	use gL/gG: 10 A			
auxiliary switch required	use gL/gG. TO A			
Installation/ mounting/ dimensions				
	-/-180° rotation possible on vertical mounting surface; can be tilted			
	orward and backward by +/- 22.5° on vertical mounting surface			
fastening method so	crew and snap-on mounting onto 35 mm standard mounting rail			
height 5	57.5 mm			
width 9	90 mm			
depth 7	'3 mm			
required spacing				
<ul> <li>with side-by-side mounting</li> </ul>				
	10 mm			
	10 mm			
	l0 mm			
	) mm			
for grounded parts				
	0 mm			
	l0 mm S mm			
	10 mm			
for live parts				
	0 mm			
	0 mm			
	0 mm			
	S mm			
Connections/ Terminals				
	crew-type terminals			
type of connectable conductor cross-sections				
for auxiliary contacts				
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12			
Safety related data				
	l 000 000; With 0.3 x le			
proportion of dangerous failures				
• with low demand rate according to SN 31920 4	0 %			
with high demand rate according to SN 31920	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 y			

protection class IP c 60529	on the front according	to IEC	20			
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
Certificates/ approval	S					
General Product Ap	proval					
SP M		<u>Confirmation</u>	<b>U</b>	KC	EAC	
EMC	Functional Safety/Safety of Machinery	Declaration of Co	onformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS		Llovd's Register LRs	PRS	RINA	
Marine / Shipping	other		Railway			
RMRS R	<u>Confirmation</u>		Vibration and Shock			
Further information Information- and Do https://www.siemens.	wnloadcenter (Catalo	gs, Brochures,)				
Industry Mall (Online https://mall.industry.si	e ordering system) emens.com/mall/en/en	/Catalog/product?mlf	b=3RH2422-1AB00			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2422-1AB00						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RH2422-1AB00						
Image database (pro http://www.automation Characteristic: Tripp	duct images, 2D dime	ension drawings, 3E ax_de.aspx?mlfb=3F t, Let-through curre	, device circuit RH2422-1AB00⟨=en ent	diagrams, EPLAN mac	ros,)	

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2422-1AB00&objecttype=14&gridview=view1





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