# **SIEMENS**

### Data sheet

## 3RH2244-1AP60

Contactor relay, 4 NO + 4 NC, 220 V AC 50 Hz / 240 V 60 Hz, Size S00, screw terminal, Captive auxiliary switch, for SUVA applications



product brand name	SIRIUS
Product designation	Auxiliary contactor
Product type designation	3RH2
General technical data	
Size of contactor	S00
Product extension	
Auxiliary switch	No
<ul> <li>Insulation voltage with degree of pollution 3 at</li> </ul>	690 V
AC rated value	
Degree of pollution	3
Surge voltage resistance rated value	6 kV
<ul> <li>protection class IP on the front</li> </ul>	IP20
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>	10 000 000
Reference code acc. to DIN EN 81346-2	к

Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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	200 V/
• at 50 Hz rated value	220 V
• at 60 Hz rated value	240 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 AC	0.8 1.1
• at 50 Hz	
• at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	37 V·A
Inductive power factor with closing power of the coil	0.8 5.7 V·A
Apparent holding power of magnet coil at AC Inductive power factor with the holding power of the	0.25
coil	0.25
Closing delay	
• at AC	8 33 ms
Opening delay	
• at AC	4 15 ms
Arcing time	10 15 ms
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	4
• instantaneous contact	4
Number of NO contacts for auxiliary contacts	4
• instantaneous contact	4
Identification number and letter for switching	44 E
elements	
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A

• at 400 V rated value3 A• at 6300 V rated value2 A• at 630 V rated value1 AOperating current at 1 current path at DC-12-• at 24 V rated value10 A• at 110 V rated value3 A• at 220 V rated value0.3 A• at 440 V rated value0.15 AOperating current with 2 current paths in series atDC-12• at 600 V rated value10 A• at 600 V rated value2 A• at 600 V rated value065 AOperating current with 3 current paths in series at065 AOperating current with 3 current paths in series at 10 A• at 200 V rated value0.65 AOperating current with 3 current paths in series at 10 A• at 200 V rated value10 A• at 200 V rated value0.65 AOperating current with 3 current paths in series at 10 A• at 200 V rated value10 A• at 200 V rated value0.3 A• at 200 V rated value0.3 A• at 200 V rated value0.3 A• at 200 V rated v		
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	• at 600 V rated value	0.1 A

• at 24 V rated value	10 A			
• at 60 V rated value	4.7 A			
• at 110 V rated value	3 A			
• at 220 V rated value	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				
<ul> <li>for short-circuit protection of the auxiliary circuit up to 230 V</li> </ul>	C characteristic: 6 A; 0.4 kA			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
JL/CSA ratings				
Contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
Design of the fuse link				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A			
nstallation/ mounting/ dimensions				
<ul> <li>mounting position</li> </ul>	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail			
Height	57.5 mm			
Width	45 mm			
Depth	117 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			
<ul> <li>for grounded parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
<ul> <li>for live parts</li> </ul>				
<ul> <li>for live parts</li> <li>forwards</li> </ul>	10 mm			
	10 mm 10 mm			
— forwards				

Connections/ Terminals	
• Type of electrical connection for auxiliary and	screw-type terminals
control current circuit	
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— single or multi-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 conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
Safety related data	
B10 value	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	1 000 000; With 0.3 x le
Proportion of dangerous failures	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	73 %
Failure rate [FIT]	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	100 FIT
Product function	
<ul> <li>positively driven operation acc. to IEC 60947-5-</li> <li>1</li> </ul>	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 у
Certificates/ approvals	

General Product	Approval				EMC
CCC	CSA		<u>KC</u>	EHC	RCM
Functional Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates	i	Marine / Ship- ping
Type Examination Certificate	EG-Konf.	Miscellaneous	Type Test Certific- ates/Test Report	Special Test Certi- ficate	ABS
Marine / Shippin	g				
B U R E A U V E R I TA S	Llovd's Register LRS	PRS	RINA	RMRS	DNVGLCOM/AF
other					
Confirmation	VDE				

#### 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=3RH2244-1AP60

#### Cax online generator

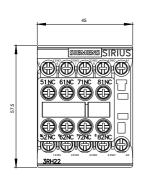
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2244-1AP60

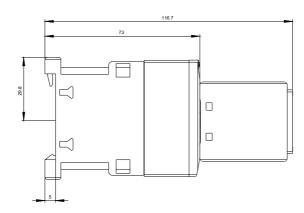
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-1AP60

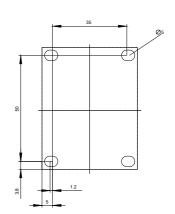
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2244-1AP60&lang=en

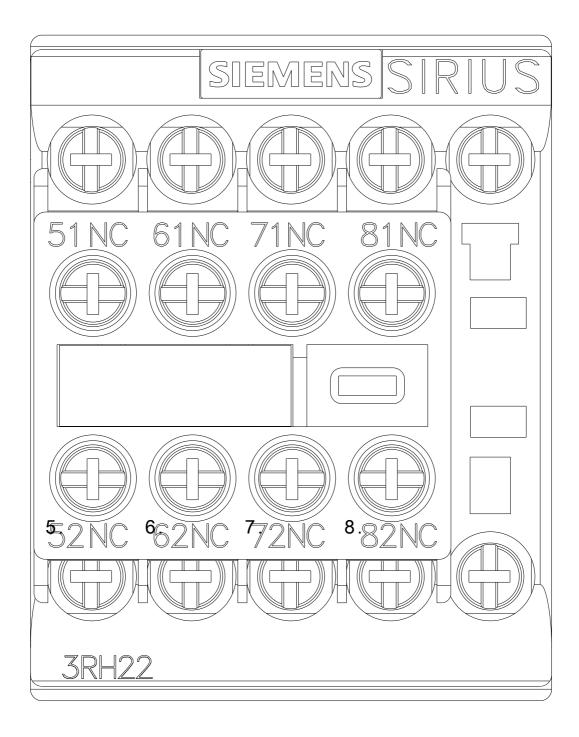
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-1AP60/char

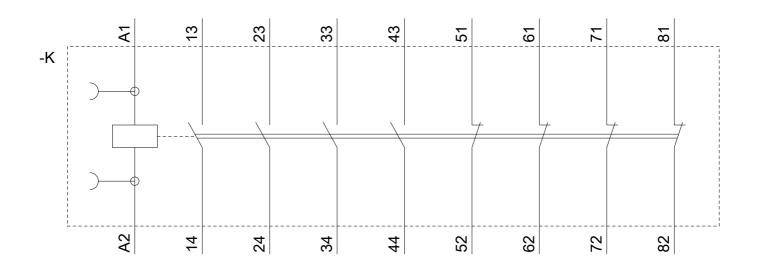
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2244-1AP60&objecttype=14&gridview=view1











last modified:

08/13/2020