SIEMENS

Data sheet

3RH2122-2AP60



Contactor relay, 2 NO + 2 NC, 220 V AC, 50 Hz, 240 V, 60 Hz, Size S00, Spring-type terminal

product brand name	SIRIUS
product brand name product designation	Auxiliary contactor
	3RH2
product type designation	JKHZ
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)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	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	
 during operation 	-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	220 V
• at 60 Hz rated value	240 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

• 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 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	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			
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	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		
 for grounded parts 			
— 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 mm ²)		
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)		
 finely stranded without core end processing 	2x (0.5 2.5 mm ²)		
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			
 with low demand rate according to SN 31920 	40 %		
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	20 y		

IEC 61508					
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		IP20			
		DIEC 60529	finger-safe, for vertical contact from the front		
certificates/ approva	als				
General Product A	Approval				
	<u>Confirmation</u>			<u>KC</u>	EAC
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>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific</u> <u>ate</u>
Marine / Shipping					
ABS	B U RE AU VERITAS		Lloyd's Register urs	PRS	RINA
Marine / Shipping	other				
RMRS RMRS	<u>Confirmation</u>				
urther information					
https://www.siemen: Industry Mall (Onli https://mall.industry.	ne ordering system) siemens.com/mall/en/en				
Service&Support (ation.siemens.com/WW/ Manuals, Certificates, C	haracteristics, F		<u>122-2AP60</u>	
Image database (p		ension drawings,	<u>AP60</u> 3D models, device circui =3RH2122-2AP60⟨=er		icros,)
Characteristic: Tri	oping characteristics, l ² stry.siemens.com/cs/ww/	t, Let-through cu	rrent	<u>.</u>	
Further characteris	stics (e.g. electrical end	urance, switchin	g frequency) Search&mlfb=3RH2122-2AI	260&objecttype=14&aria	lview=view1

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2AP60&objecttype=14&gridview=view1

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