SIEMENS

Data sheet 3RH2122-2AV60

product brand name product designation available product designati		Contactor relay, 2 NO + 2 NC, 480 V AC, 60 Hz, Size S00, Spring-type
product designation product type designation	and the Albania discussion	terminal
product type designation size of contactor product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value at AC at AC at Office of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added dauxiliary switch block typical of the contactor with added dauxiliary switch block typical of the contactor with added dauxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with advertised auxiliary switch block typical of the contactor with advertised auxiliary switch typic	•	
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relative humidity at 55 °C according to IEC 60068-2-30 maximum no-load switching frequency • at AC • at DC 10 000 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 60 Hz rated value control supply voltage frequency • 2 rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil coil closing delay • at AC opening delay • at AC opening delay • at AC • at AC opening delay • at AC • at AC • at AC	during storage	-55 +80 °C
maximum no-load switching frequency	-	10 %
no-load switching frequency • at AC • at DC Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 60 Hz rated value control supply voltage frequency • 2 rated value operating range factor control supply voltage rated value of magnet coil at AC • at 60 Hz apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil coil closing delay • at AC		95 %
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inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil closing delay • at AC	• at 60 Hz	0.85 1.1
apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil closing delay • at AC		37 VA
inductive power factor with the holding power of the coil closing delay • at AC		0.8
coil closing delay ● at AC 8 33 ms opening delay ● at AC 4 15 ms		
 at AC opening delay at AC 4 15 ms 		0.25
opening delay ● at AC	closing delay	
• at AC 4 15 ms	• at AC	8 33 ms
	opening delay	
arcing time 10 15 ms		
	arcing time	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	1 A	
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	1 A	
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	0.1071	
DC-12		
at 24 V rated value	10 A	
at 60 V rated value	10 A	
at 110 V rated value	4 A	
at 110 V rated value 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	0.0071	
DC-12		
at 24 V rated value	10 A	
at 60 V rated value	10 A	
at 10 V rated value at 110 V rated value	10 A	
at 110 V rated value at 220 V rated value	3.6 A	
at 440 V rated value	2.5 A	
	1.8 A	
• at 600 V rated value		
operating frequency at DC-12 maximum	1 000 1/h	
operational current at 1 current path at DC-13	40.4	
at 24 V rated value	10 A	
at 110 V rated value	1 A	
at 220 V rated value	0.3 A	
at 440 V rated value	0.14 A	
at 600 V rated value	0.1 A	
operational current with 2 current paths in series at DC-13		
• at 24 V rated value	10 A	
at 24 v rated value at 60 V rated value	3.5 A	
at 110 V rated value at 230 V rated value	1.3 A	
at 220 V rated value at 440 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 100 V rated value at 110 V rated value	3 A	
at 110 V rated value 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 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 par 100 million (47 \/ 1 m/)	
-	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 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 DIN 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 mm²)	
 finely stranded with core end processing 	2x (0.5 2.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 at AWG cables for auxiliary contacts 	2x (20 12)	
Safety related data		
product function positively driven operation according to IEC 60947-5-1	Yes	
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 IEC 61508	20 a	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Certificates/ approvals		

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

Railway



Confirmation



Vibration and Shock

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=3RH2122-2AV60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-2AV60

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AV60

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-2AV60&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2AV60/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2AV60&objecttype=14&gridview=view1

last modified:

11/21/2022

