SIEMENS

Data sheet	3RH2353-1CP00-0K
	Contactor relay, 5 NO + 3 NC, 230 V AC, 50 / 60 Hz, Size S00,
	screw terminal, 2 NO + 2 NC basic unit / EN Varistor plugged on
Product brand name	SIRIUS
Product designation	Auxiliary contactor
Product type designation	3RH2
eneral technical data	
Size of contactor	S00
Product extension	
Auxiliary switch	No
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	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)	
of contactor typical	10 000 000
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	К
mbient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
lain circuit	
No-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
ontrol circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
● at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
Control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz

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Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	37 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of magnet coil at AC	5.7 V·A
Inductive power factor with the holding power of the 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	3
instantaneous contact	3
Number of NO contacts for auxiliary contacts	5
instantaneous contact	5
Identification number and letter for switching	53 E
elements Operating current at AC-12 maximum	10 A
Operating current at AC-15	10 A
• at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value at 500 V rated value	2 A
at 690 V rated value at 690 V rated value	1 A
Operating current at 1 current path at DC-12	
• at 24 V rated value	10 A
at 110 V rated value	3 A
at 110 V rated value at 220 V rated value	1 A
at 440 V rated value	0.3 A
• at 600 V rated value	0.15 A
Operating current with 2 current paths in series at	
DC-12	
• at 24 V rated value	10 A
• at 60 V rated value	10 A
• at 110 V rated value	4 A
● at 220 V rated value	2 A
• at 440 V rated value	1.3 A
● at 600 V rated value	0.65 A

Operating current with 3 current paths in series at DC-12	
at 24 V rated value	10 A
at 60 V rated value	10 A
• at 110 V rated value	10 A
at 220 V rated value	3.6 A
• at 440 V rated value	2.5 A
● at 600 V rated value	1.8 A
Operating frequency at DC-12 maximum	1 000 1/h
Operating current at 1 current path at DC-13	
• at 24 V rated value	6 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
Operating current with 2 current paths in series at DC-13	
● at 24 V rated value	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
Operating 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	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

+/-180° rotation possible on vertical mounting surface; can be
tilted forward and backward by +/- 22.5° on vertical mounting
surface
screw and snap-on mounting onto 35 mm standard mounting rai
57.5 mm
45 mm
117 mm
10 mm
10 mm
10 mm
0 mm
10 mm
10 mm
6 mm
10 mm
10 mm
10 mm
10 mm
6 mm
screw-type terminals
2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
2x (20 16), 2x (18 14), 2x 12
1 000 000; With 0.3 x le
40 %
73 %
100 FIT

• positively driven operation acc. to IEC 60947-5-

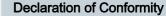
Yes

T1 value for proof test interval or service life acc. to IEC 61508

20 y

Certificates/approvals

General Product Approval











Miscellaneous

Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping

other

Railway





Confirmation



Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2353-1CP00-0KA0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH2353-1CP00-0KA0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2353-1CP00-0KA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2353-1CP00-0KA0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2353-1CP00-0KA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2353-1CP00-0KA0&objecttype=14&gridview=view1

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