SIEMENS

Data sheet

3RH2353-1CU00-0KA0



Contactor relay, 5 NO + 3 NC, 240 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
General technical data	
size of contactor	S00
product extension auxiliary switch	No
power loss [W] for rated value of the current without load current share typical	1.43 W
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 (operating cycles)	
 of contactor typical 	10 000 000
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	07/01/2006
SVHC substance name	Lead - 7439-92-1
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	95.5 kg
Global Warming Potential [CO2 eq] during manufacturing	1.43 kg
Global Warming Potential [CO2 eq] during operation	94.1 kg
Global Warming Potential [CO2 eq] after end of life	-0.016 kg
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	

- et 50 Lie reted volve	240.1/
• at 50 Hz rated value	240 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	
-	0.0 4.4
• 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 VA
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	5.7 VA
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 elements	53 E
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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 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
operational 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
operational current at 1 current path at DC-13	
• at 24 V rated value	6 A
at 24 V fated value at 110 V rated value	1A
at 110 V rated value 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	10.4
• 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
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	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
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	57.5 mm
width	45 mm
depth	117 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	
Connections/ Terminals	6 mm
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
Safety related data	
product function	
positively driven operation according to IEC 60947-5-1	Yes
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN	1 000 000; With 0.3 x le 100 FIT

ISO 13849						
device type according	to ISO 13849-1	3				
overdimensioning acc	ording to ISO 13849-2 n	ecessary Yes	3			
IEC 61508						
safety device type acc	ording to IEC 61508-2	Тур	Туре А			
Electrical Safety						
protection class IP on the front according to IEC 60529		EC 60529 IP2	IP20			
touch protection on the front according to IEC 60529		60529 fing	finger-safe, for vertical contact from the front			
Approvals Certificates						
General Product App	roval					
	<u>Confirmation</u>	UK CA		CE EG-Konf.	KC	
General Product Approval	EMV	Test Certificates		Marine / Shipping		
EHC	RCM	<u>Special Test Certific-</u> ate	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS	
Marine / Shipping					other	
	Llovd's Register us	PRS	RINA	RMRS	<u>Miscellaneous</u>	
other	Railway	Environment				
<u>Confirmation</u>	Special Test Certific- ate	EPD	Environmental Con- firmations			

Further	informatio	bn
i un unor	internatio	

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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2353-1CU00-0KA0 https://

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2353-1CU00-0KA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2353-1CU00-0KA0

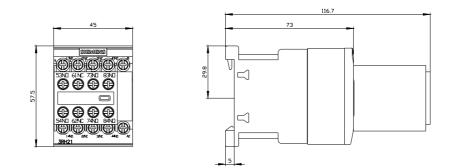
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

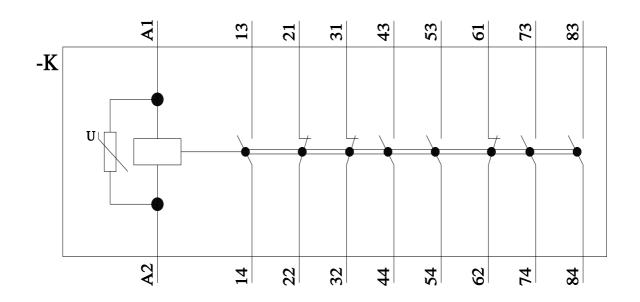
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf b=3RH2353-1CU00-0KA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2353-1CU00-0KA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2353-1CU00-0KA0&objecttype=14&gridview=view1





last modified:

5/28/2024 🖸

5/31/2024