SIEMENS

Data sheet 3RH2140-1AV60



Contactor relay, 4 NO, 480 V AC, 60 Hz, Size S00, screw terminal

product brand name	SIRIUS
product brand name	
product type designation	Auxiliary contactor 3RH2
product type designation General technical data	OIMIE
size of contactor	\$00
	Yes
product extension auxiliary switch	Yes 690 V
insulation voltage with degree of pollution 3 at AC rated value	3
degree of pollution surge voltage resistance rated value	5 6 kV
shock resistance at rectangular impulse	
at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	1,09101110, 1,191101110
at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	,,,,,
of contactor typical	30 000 000
of the contactor with added electronically optimized	5 000 000
auxiliary switch block typical	10,000,000
of the contactor with added auxiliary switch block typical reference code according to IEC 81346.3	10 000 000
reference code according to IEC 81346-2	K 10/01/2009
Substance Prohibitance (Date) Ambient conditions	10/0//2003
installation altitude at height above sea level maximum	2 000 m
ambient temperature	2 000 111
during operation	-25 +60 °C
during operation during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum Main circuit	
Main circuit	
no-load switching frequency	40,000,415
• at AC	10 000 1/h
at DC Control circuit/ Control	10 000 1/h
Control circuit/ Control	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	480 V
at 60 Hz rated value control supply voltage fraguency	480 V
control supply voltage frequency	60 Hz
operating range factor control supply voltage rated value of	00 i IZ
magnet coil at AC	
● at 60 Hz	0.85 1.1

Inductive power factor with closing power of the coil 0.8	annarent nick-up nower of magnet coil at AC	37 VA
paper to hacking power of magnet coll at AC 0.29	apparent pick-up power of magnet coil at AC	
Inductive power factor with the holding power of the coil		
color Al AC		
a. it AC 833 ms opening delay		0.25
		0 22
Acid Acid Acid Acid Acid Acid Acid Acid		8 33 IIIS
About Abou		4 15 mg
Number of NO contacts for auxiliary contacts 4		
Number of NO contacts for auxiliary contacts 4		10 13 1118
International current at AC-12 maximum		A
Identification number and letter for switching elements 10 A	-	
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• at 110 V rated value 3 A		
■ at ∠∠∪ 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 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	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	screw-type terminals
type of connectable conductor cross-sections	
for auxiliary contacts	
solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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
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	
General Product Approval	

General Product Approval



Confirmation





<u>KC</u>



Functional EMC Safety/Safety of Ma- Declaration of Conformity Test Certificates chinery



Type Examination Cer**tificate**





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

Railway

Environment



Confirmation



Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RH2140-1AV60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-1AV60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1AV60

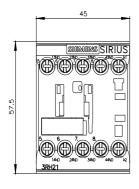
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

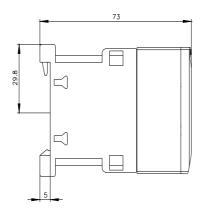
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2140-1AV60&lang=en

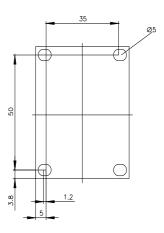
Characteristic: Tripping characteristics, I2t, Let-through current

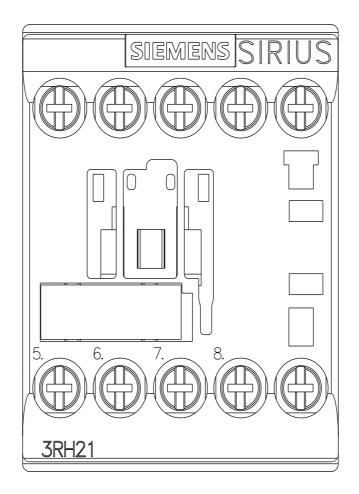
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1AV60/char

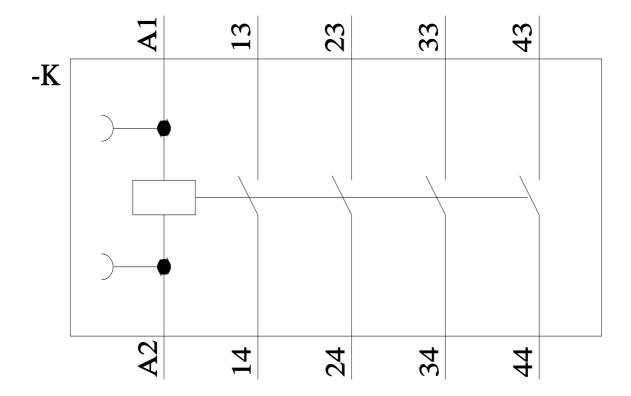
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-1AV60&objecttype=14&gridview=view1











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