SIEMENS

Data sheet

3RH2140-1BE40



Contactor relay, 4 NO, 60 V DC, Size S00, screw terminal

product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current without load current share typical	4 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 DC	10g / 5 ms, 5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 8g / 10 ms
mechanical service life (operating 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	DC
control supply voltage at DC	
rated value	60 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8

• full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
at DC	30 100 ms
opening delay	
● at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	4
 instantaneous contact 	4
identification number and letter for switching elements	40 E
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 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	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 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	C characteristic: 6 A; 0.4 kA

	1.000.1/					
of the auxiliary circuit	-					
contact reliability of	r auxiliary contacts		1 faulty switching per 100 r	million (17 V, 1 mA)		
UL/CSA ratings						
	xiliary contacts according	to UL	A600 / Q600			
Short-circuit protection	on					
	k for short-circuit protection	of the auxiliary	fuse gL/gG: 10 A			
switch required	<i>,</i>					
Installation/ mounting	g/ dimensions					
mounting position			+/-180° rotation possible or backward by +/- 22.5° on v	n vertical mounting surface; car rertical mounting surface	be tilted forward and	
fastening method			screw and snap-on mounting onto 35 mm DIN rail			
height			57.5 mm			
width			45 mm			
depth			73 mm			
required spacing			70 1111			
with side-by-si	de mounting					
— forwards	de mounting		10 mm			
— upwards			10 mm			
— downwar	de		10 mm			
— at the sid			0 mm			
 at the sid for grounded p 			U HIIII			
 for grounded p forwards 	iano s		10 mm			
			10 mm			
— upwards — at the sid	•		6 mm			
— at the sid — downwar			10 mm			
 for live parts 	us		10 mm			
•			10 mm			
— forwards			10 mm			
— upwards	do					
— downwar			10 mm			
— at the sid			6 mm			
Connections/ Termina		ing the state sta			_	
	nection for auxiliary and cont		screw-type terminals			
	conductor cross-sections	•				
 for auxiliary co 			$2x (0.5 - 1.5 mm^2) 2x (0.7)$	$7E = 2Emm^2 = 2 \times 4mm^2$		
— solid or s		ing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²			
-	anded with core end process	ing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
Safety related data	s for auxiliary contacts		2x (20 16), 2x (18 14)	, 2X 12		
-	tively driven operation accor	ding to IEC	Yes			
	lemand rate according to SN	1 21020				
proportion of dange		131920	1 000 000; With 0.3 x le			
	nd rate according to SN 319	20	40.0/			
	and rate according to SN 319		40 %			
			73 %			
	low demand rate according at interval or service life acco		100 FIT 20 a			
	on the front according to I	EC 60529	IP20			
-	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
Certificates/ approval	-					
General Product Ap						
(T)	(m)	<u>Confirmatio</u>	• •	KC	rnr	
					EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates		

RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report		
Marine / Shipping							
ABS	BUREAU VERITAS		Lloyd's Register	PRS	RINA		
Marine / Shipping	other		Railway	Dangerous Good	Environment		
RMRS RMRS	<u>Confirmation</u>		<u>Vibration and Shock</u>	Transport Information	Environmental Con- firmations		
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=3RH2140-1BE40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-1BE40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1BE40

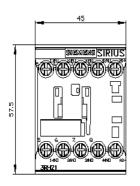
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

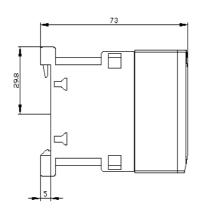
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2140-1BE40&lang=en

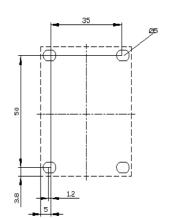
Characteristic: Tripping characteristics, I²t, Let-through current

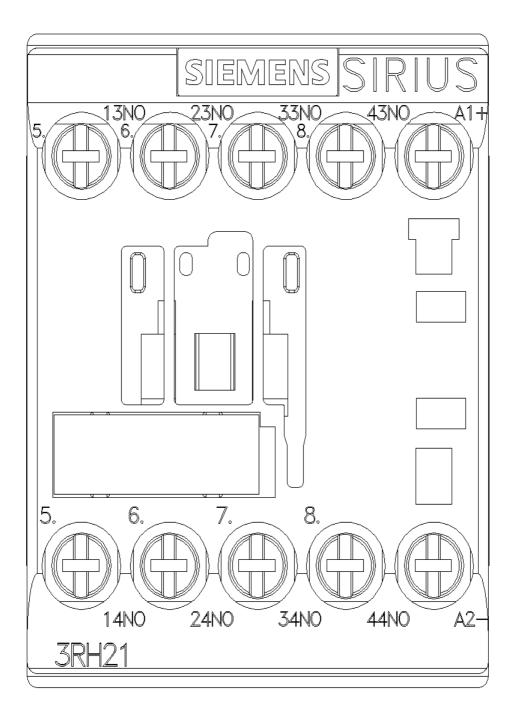
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1BE40/char

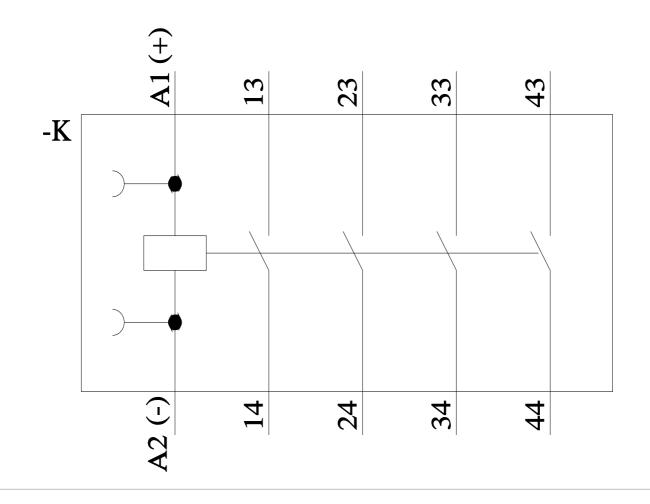
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-1BE40&objecttype=14&gridview=view1











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