## SIEMENS

## Data sheet

## 3RH2140-2BM40



Contactor relay, 4 NO, 220 V DC, Size S00, Spring-type terminal

needuct brend name	SIRIUS
product brand name	
product designation	Auxiliary contactor 3RH2
product type designation	JKHZ
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
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)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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
<ul> <li>during storage</li> </ul>	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
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	220 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
● initial value ● full-scale value	0.8 1.1

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
<ul> <li>instantaneous contact</li> </ul>	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	1A
operational current at 1 current path at DC-12	40.4
at 24 V rated value	10 A
at 110 V rated value	3 A 1 A
at 220 V rated value	1 A 0.3 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	0.3 A 0.15 A
	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 10 V rated value	4A
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	10.4
at 24 V rated value	10 A
at 60 V rated value     at 110 V rated value	4.7 A
at 110 V rated value     at 220 V rated value	3 A 1.2 A
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	1.2 A 0.5 A
at 440 V rated value     at 600 V rated value	0.5 A 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)

G: 10 A potation possible on vertical mounting surface; can be tilted forward a l by +/- 22.5° on vertical mounting surface d snap-on mounting onto 35 mm DIN rail		
otation possible on vertical mounting surface; can be tilted forward a l by +/- 22.5° on vertical mounting surface		
otation possible on vertical mounting surface; can be tilted forward a l by +/- 22.5° on vertical mounting surface		
by +/- 22.5° on vertical mounting surface		
by +/- 22.5° on vertical mounting surface		
10 mm 6 mm		
spring-loaded terminals		
2x (0,5 4 mm²)		
2x (0.5 2.5 mm <sup>2</sup> )		
2x (0.5 2.5 mm²) 2x (20 12)		
12)		
Yes		
); With 0.3 x le		
73 %		
100 FIT		
20 a		
IP20		
e, for vertical contact from the front		

RCM	<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register uts	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
RMRS	<u>Confirmation</u>		Vibration and Shock	Transport Information	Environmental Con- firmations
Further information					
https://press.siemens.c Siemens is working o	to exit the Russian market com/global/en/pressrelease/s on the renewal of the currer cal Siemens office on the stat	iemens-wind-down-rus It 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=3RH2140-2BM40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-2BM40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2BM40

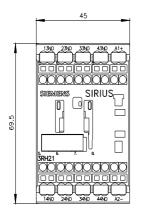
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

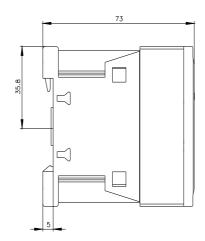
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2140-2BM40&lang=en

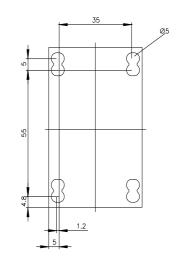
Characteristic: Tripping characteristics, I2t, Let-through current

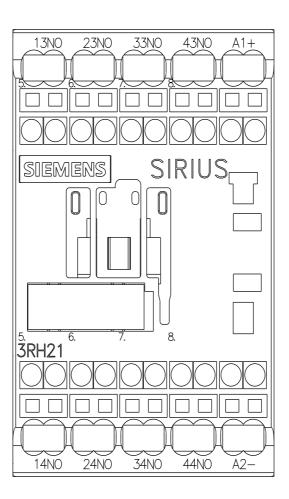
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2BM40/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-2BM40&objecttype=14&gridview=view1

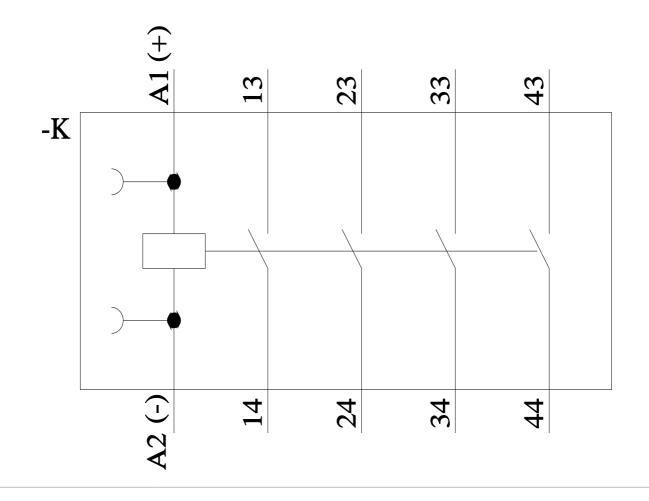








Subject to change without notice © Copyright Siemens



last modified:

11/21/2022 🖸