SIEMENS

Data sheet

3RH2440-1BB40

Contactor relay, latched, 4 NO, 24 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
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	5 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	5 000 000
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	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8

aloging newer of magnet soil at DC	4 W
closing power of magnet coil at DC	
holding power of magnet coil at DC	4 W
elosing delay ● at DC	30 100 ms
	50 100 ms
opening delay	7 10 ma
• at DC	7 13 ms 10 15 ms
arcing time	10 15 IIIS
Auxiliary circuit	
number of NO contacts for auxiliary contacts	4
instantaneous contact	4
identification number and letter for switching	40 E
elements	10 A
operational current at AC-12 maximum	IU 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 at 24 V rated value 	10 A
at 110 V rated value	3 A
at 220 V rated value	1A
 at 440 V rated value 	0.3 A
 at 440 V rated value at 600 V rated value 	0.15 A
operational current with 2 current paths in series at	0.1071
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	C characteristic: 6 A; 0.4 kA

protection of the auxiliary circ					
contact reliability of auxilia	ry contacts		1 faulty switching per 100 n	nillion (17 V, 1 mA)	
UL/CSA ratings					
contact rating of auxiliary of	ontacts accor	ding to UL	A600 / Q600		
Short-circuit protection					
design of the fuse link for sho auxiliary switch required	ort-circuit protec	tion of the	fuse gL/gG: 10 A		
Installation/ mounting/ dimer	nsions				
mounting position			+/-180° rotation possible or		
factoring mathed			forward and backward by +		ng surface
fastening method height			screw and snap-on mountir 57.5 mm	ig onto 55 mm Din rail	
width			90 mm		
depth			73 mm		
required spacing					
 with side-by-side mount 	ting				
— forwards			10 mm		
— upwards			10 mm		
— downwards			10 mm		
— at the side			0 mm		
 for grounded parts 			10 mm		
— forwards			10 mm		
— upwards — at the side			10 mm 6 mm		
— downwards			10 mm		
 for live parts 			10 mm		
— forwards			10 mm		
— upwards			10 mm		
— downwards			10 mm		
— at the side			6 mm		
Connections/ Terminals					
type of electrical connection f	or auxiliary and	control circuit	screw-type terminals		
type of connectable conduc	ctor cross-sec	tions			
 for auxiliary contacts 					
— solid or stranded			2x (0.5 1.5 mm ²), 2x (0.7		
— finely stranded wit		cessing	2x (0.5 1.5 mm²), 2x (0.7		
 at AWG cables for auxi 	liary contacts		2x (20 16), 2x (18 14),	, 2x 12	
Safety related data					
product function positively dri IEC 60947-5-1	ven operation a	iccording to	Yes		
B10 value with high demand	rate according t	to SN 31920	1 000 000; With 0.3 x le		
proportion of dangerous fa	-				
 with low demand rate a 		31920	40 %		
 with high demand rate 	-		73 %		
failure rate [FIT] with low dem 31920	hand rate accord	ding to SN	100 FIT		
T1 value for proof test interva IEC 61508	I or service life	according to	20 a		
protection class IP on the f 60529	ront according	to IEC	IP20		
touch protection on the fro	nt according to	DIEC 60529	finger-safe, for vertical cont	tact from the front	
Certificates/ approvals					
General Product Approval					
	onfirmation			<u>KC</u>	
œ) () ()	(\U_		FHI
CSA		ccc	UL		
-	41				
EMC Safet	tional ty/Safety of	Declaration o	of Conformity	Test Certificates	
Mach	ninery				

Subject to change without notice © Copyright Siemens

\bigotimes
RCM







Type Test Certific-ates/Test Report

Special Test Certific-<u>ate</u>

Marine	Shipping







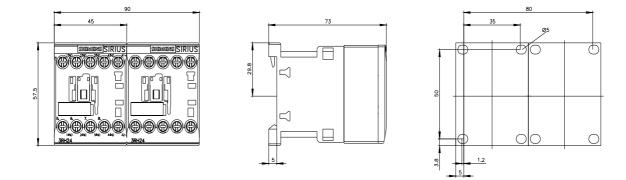


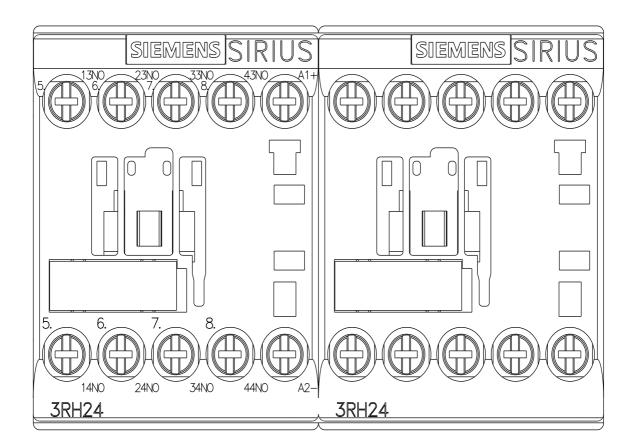


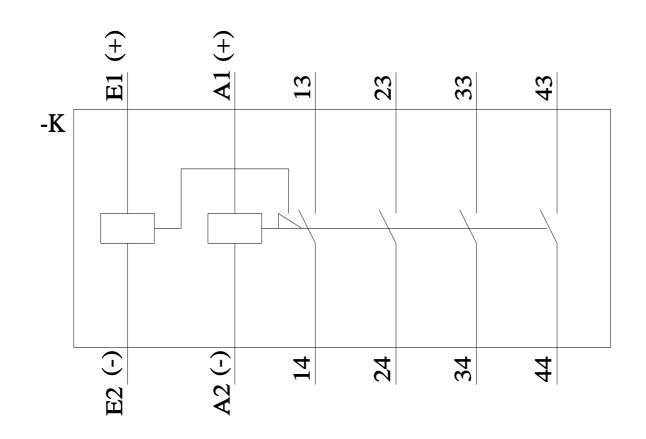


Marine / Shipping	other	Railway	Dangerous Good
(CARS)	<u>Confirmation</u>	Vibration and Shock	<u>Transport Informa-</u> <u>tion</u>

Further information	
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=3RH2440-1BB40	
Cax online generator	
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2440-1BB40	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1BB40	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2440-1BB40⟨=en	
Characteristic: Tripping characteristics, I ² t, Let-through current	
https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1BB40/char	
Further characteristics (e.g. electrical endurance, switching frequency)	
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2440-1BB40&objecttype=14&gridview=view1	







last modified:

11/21/2022 🖸