SIEMENS

Data sheet

3RH2422-1BW40

Contactor relay, latched, 2 NO + 2 NC, 48 V DC Size S00, screw terminal



product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	\$00
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	48 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 nower of magnet coil at DC	4 W
holding power of magnet coil at DC	VV T
closing delay ● at DC	30 100 ms
	30 100 ms
opening delay	7 40
• at DC	7 13 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	2
identification number and letter for switching elements	22 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

	(000)(
of the auxiliary circuit u	-						
contact reliability of a	iuxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)				
UL/CSA ratings							
-	liary contacts according	to UL	A600 / Q600				
Short-circuit protection	1						
design of the fuse link f switch required	for short-circuit protection of	of the auxiliary	fuse gL/gG: 10 A				
Installation/ mounting/	dimensions						
mounting position	amensions		1/ 190° rotation possible on w	artical mounting ourface: con	he tilted ferward and		
mounting position			+/-180° rotation possible on ve backward by +/- 22.5° on vert		be lined forward and		
fastening method			screw and snap-on mounting onto 35 mm DIN rail				
height			57.5 mm				
width			90 mm				
depth			73 mm				
required spacing							
 with side-by-side 	e mounting						
— forwards			10 mm				
— upwards			10 mm				
— downwards	3		10 mm				
— at the side			0 mm				
 for grounded par 	rts						
— forwards			10 mm				
— upwards			10 mm				
— at the side			6 mm				
— downwards			10 mm				
			10 11111				
 for live parts 			40				
— forwards			10 mm				
— upwards			10 mm				
— downwards	6		10 mm				
— at the side			6 mm				
Connections/ Terminals	S						
type of electrical conne	ection for auxiliary and conf	trol circuit	screw-type terminals				
type of connectable c	onductor cross-sections	;					
 for auxiliary cont 	acts						
— solid or stra	anded		2x (0.5 1.5 mm²), 2x (0.75 .	2.5 mm²), 2x 4 mm²			
— finely stran	ded with core end process	ing	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 positiv 60947-5-1	vely driven operation accor	ding to IEC	Yes				
	mand rate according to SN	1 31920	1 000 000; With 0.3 x le				
proportion of danger		01020	1 000 000, With 0.0 X lo				
•	d rate according to SN 319	20	40 %				
	d rate according to SN 319		73 %				
	w demand rate according interval or service life acco		100 FIT 20 a				
61508			1000				
-	protection class IP on the front according to IEC 60529		IP20				
	he front according to IEC	00529	finger-safe, for vertical contac				
Certificates/ approvals General Product App	roval						
(SP)	<u>Confirmation</u>		(U)	<u>KC</u>	EHC		
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates			

RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	C C EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register LRS	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	
RMRS	<u>Confirmation</u>	DE	<u>Vibration and Shock</u>	Transport Information	
Further information					
Siemens has decided https://press.siemens.cc Siemens is working o Please contact your loo EAC relevant market (cc Information on the pa https://support.industry	.siemens.com/cs/ww/en/view nloadcenter (Catalogs, Bro	emens-wind-down-rus t EAC certificates. us of validity of the EA EU member states Ru: /109813875	C certification if you intend	d to import or offer to supp	bly these products to an

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2422-1BW40

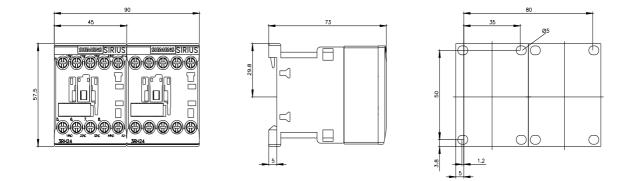
Service&Support industry siemens.com/cs/ww/en/ps/3RH2422-1BW40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

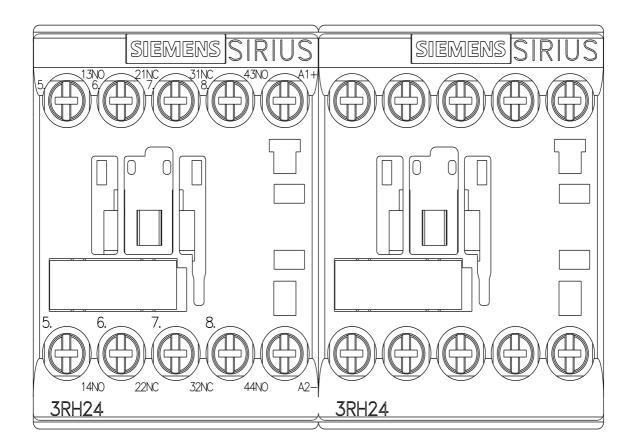
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2422-1BW40&lang=en

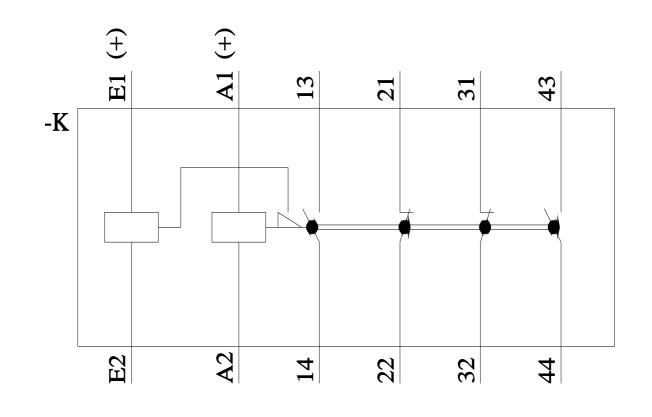
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH242 2-1BW40/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2422-1BW40&objecttype=14&gridview=view1







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