SIEMENS

Product data sheet

3RH2140-2BB40



CONTACTOR RELAY, 4NO, DC 24V, SZ S00, SPRING-LOADED TERMINAL

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Identification number and letter for switching elements		40 E
Product extension / auxiliary switch		Yes
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operating	°C	-25 +60
Shock resistance		
• at rectangular impulse		
• at DC		10g / 5 ms, 5g / 10 ms
at sine pulse		
• at DC		15g / 5 ms, 8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Mechanical operating cycles as operating time		

• of the contactor / typical	30,000,000
of the contactor with added auxiliary switch block / typical	10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 	10,000,000

Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.8 1.1
Holding power / of the solenoid / for DC	W	4
Pull-in power / of the solenoid / for DC	W	4
Closing delay		
• at DC	ms	30 100
Opening delay		
• at DC	ms	25 90
Arcing time	S	10 15

Auxiliary circuit:			
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)	
Number of NO contacts / for auxiliary contacts / instantaneous switching	-	4	
[nicht versorgt: PMD_ABP551_001_000]			
•	А	2	
• at 690 V	А	1	
[nicht versorgt: PMD_ABP553_001_000]			
 [nicht versorgt: PMD_ABP553_001_000] 			
•	А	10	
•	А	3	
•	А	1	
• with 2 current paths in series / at DC-12			
• at 24 V / rated value	А	10	
• at 60 V / rated value	А	10	
• at 110 V / rated value	А	4	
• at 220 V / rated value	А	2	
• at 440 V / rated value	А	1.3	
• at 600 V / rated value	А	0.65	
• with 3 current paths in series / at DC-12			
• at 24 V / rated value	А	10	
• at 60 V / rated value	А	10	
• at 110 V / rated value	А	10	

• at 220 V / rated value	A	3.6		
• at 440 V / rated value	A	2.5		
• at 600 V / rated value	A	1.8		
Operating current				
 [nicht versorgt: PMD_ABP558_001_000] 				
•	А	10		
•	А	1		
•	А	0.3		
• with 2 current paths in series / at DC-13				
• at 24 V / rated value	А	10		
• at 60 V / rated value	А	3.5		
• at 110 V / rated value	А	1.3		
• at 220 V / rated value	А	0.9		
• at 440 V / rated value	А	0.2		
• at 600 V / rated value	А	0.1		
• with 3 current paths in series / at DC-13				
• at 24 V / rated value	А	10		
• at 60 V / rated value	А	4.7		
• at 110 V / rated value	А	3		
• at 220 V / rated value	А	1.2		
• at 440 V / rated value	А	0.5		
• at 600 V / rated value	А	0.26		
Off-load operating frequency				
• at AC	1/h	10,000		
• at DC	1/h	10,000		
Frequency of operation				
• at AC-12 / maximum	1/h	1,000		
• at AC-14 / maximum	1/h	1,000		
• at AC-15 / maximum	1/h	1,000		
• at DC-12 / maximum	1/h	1,000		
• at DC-13 / maximum	1/h	1,000		
Short-circuit:				
Design of the fuse link / for short-circuit protection of the				
auxiliary switch				
• required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 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		

Type of mounting			screw a mountir	nd snap-on mounting o ng rail	nto 35 mm standard
Width		mm	45		
Height		mm	70		
Depth		mm	73		
Connections:					
Design of the electrical connection					
 for auxiliary and control current circuit 			spring-l	oaded terminals	
Type of the connectable conductor cross-set	ction				
 for auxiliary contacts 					
• solid			2x (0.5	4 mm²)	
 finely stranded 					
• with conductor end processing			2x (0.5	2.5 mm²)	
• without conductor final cutting			2x (0.5	2.5 mm²)	
• for AWG conductors / for auxiliary contacts			2x (20 .	12)	
Certificates/approvals:				_	
General Product Approval				Functional Safety / Safety of Machinery	Declaration of Conformity
	GOST			Type Examination	EG-Konf.
Test Certificates					
Special Test Type Test Certificate Certificates/Test Report Report					
Shipping Approval					
ABS BUREAU VERITAS	DNV DNV	GL		Lloyd's Register LRS	PRS
Shipping Approval	other				
RINA RMRS	UDE VDE				
UL/CSA ratings:					
Contact rating designation / for auxiliary con UL	tacts / according to		A600 / 0	Q600	
Sicherheitsrelevante Kenngrößen:					
B10 value / with high demand rate					

according to SN 31920		1,000,000
• note		With 0.3 x le
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
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 value) / with low demand rate		
according to SN 31920	FIT	100
Product function / positively driven operation to IEC 60947-5-1		Yes
• comment		with 3RH29

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator:

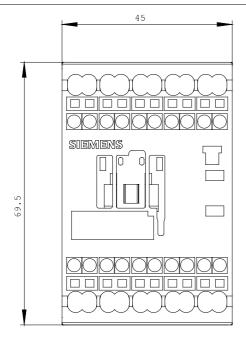
http://www.siemens.com/cax

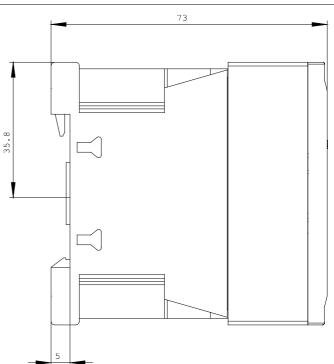
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

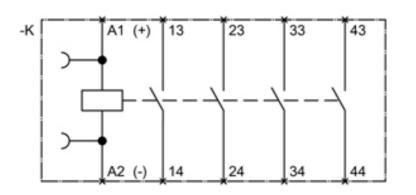
http://support.automation.siemens.com/WW/view/en/3RH2140-2BB40/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2140-2BB40







last change:

Feb 15, 2013