SIEMENS

Data sheet

3RH2440-1AU00

Contactor relay, latched, 4 NO, 240 V AC, 50 / 60 Hz, 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		
Protection class IP			
• on the front	IP20		
Shock resistance at rectangular impulse			
• at AC	7,3g / 5 ms, 4,7g / 10 ms		
Shock resistance with sine pulse			
• at AC	11,4g / 5 ms, 7,3g / 10 ms		
Mechanical service life (switching cycles)			
 of contactor typical 	5 000 000		

 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	5 000 000
Reference code acc. to DIN EN 81346-2	К
Reference code acc. to DIN EN 61346-2	ĸ
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
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	AC
Control supply voltage at AC	
• at 50 Hz rated value	240 V
• at 60 Hz rated value	240 V
Control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
Operating range factor control supply voltage rated	
value of magnet coil at AC	0.0 4.4
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	37 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of magnet coil at AC	5.7 V·A
Inductive power factor with the holding power of the coil	0.25
Closing delay	
● at AC	8 33 ms
Opening delay	
• at AC	4 15 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
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
Operating 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
Operating 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
Operating 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
Operating 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				
Operating 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 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)				
UL/CSA ratings					
Contact rating of auxiliary contacts according to UL	A600 / Q600				
Short-circuit protection Design of the fuse link					
• for short-circuit protection of the auxiliary switch	fuse gL/gG: 10 A				
required					
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				
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail				
Height	57.5 mm				
Width	90 mm				
Depth	73 mm				
Required spacing					
 with side-by-side mounting 					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
 for grounded parts 					
— forwards	10 mm				
— upwards	10 mm				
— at the side	6 mm				
— downwards	10 mm				
• for live parts					

10 mm 10 mm
10
10 mm
6 mm
screw-type terminals
2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
2x (20 16), 2x (18 14), 2x 12
1 000 000; With 0.3 x le
40 %
73 %
100 FIT
Yes
20 у

Certificates/ approvals

General Product Approval EMC								
	CSA		<u>KC</u>	EHC	RCM			
Functional Safety/Safety of Machinery	Declaration of	Conformity	Test Certificates		Marine / Ship- ping			
Type Examination Certificate	EG-Konf.	Miscellaneous	Type Test Certific- ates/Test Report	Special Test Certi- ficate	ABS			
Marine / Shippin	Marine / Shipping							
BUREAU VERITAS	Lloyd's Register LRS	PRS	RINA	RMRS	DNVGLCOM/AF			
other		Railway						
Confirmation	VDE	Vibration and Shock						

Further information

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=3RH2440-1AU00

Cax online generator

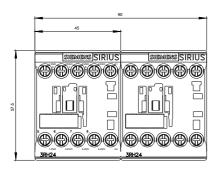
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2440-1AU00

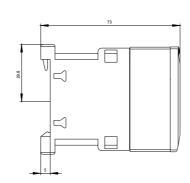
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1AU00

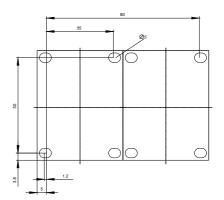
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2440-1AU00&lang=en

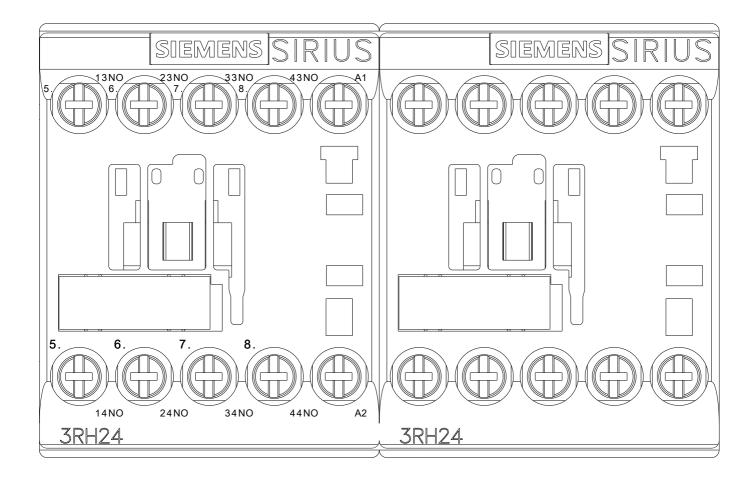
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1AU00/char

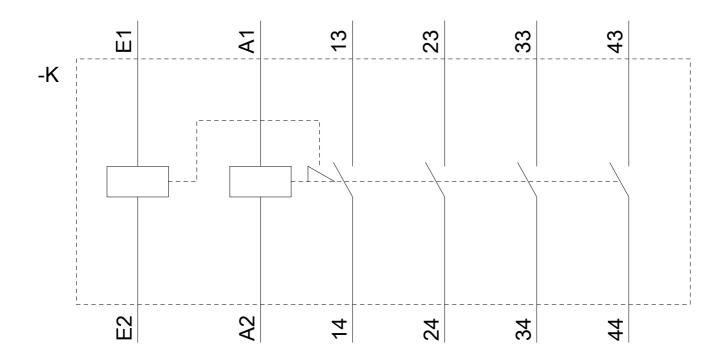
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2440-1AU00&objecttype=14&gridview=view1











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