SIEMENS

Data sheet

3RH2440-1AP00

Contactor relay, latched, 4 NO, 230 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		
power loss [W] for rated value of the current without load current share typical	1.43 W		
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 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 (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 %		
Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
Global Warming Potential [CO2 eq] total	50.5 kg		
Global Warming Potential [CO2 eq] during manufacturing	1.93 kg		
Global Warming Potential [CO2 eq] during operation	48.8 kg		
Global Warming Potential [CO2 eq] after end of life	-0.242 kg		
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 	230 V
• at 60 Hz rated value	230 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	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	37 VA
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	5.7 VA
inductive power factor with the holding power of the coil	0.25
	0.25
closing delay	000
• 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
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	
at 24 V rated value	10 A
at 24 V lated value 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
	1A
at 110 V rated value	
• 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

• ai 440 V rated value 0.2 A • ai 600 V rated value 0.4 A • 024 V rated value 10.4 • 024 V rated value 10.4 • 024 V rated value 10.4 • 024 V rated value 3.4 • 021 V rated value 3.4 • 0220 V rated value 2.5 A • 0240 V rated value 0.26 A • 0240 V rated				
• # 100 V rated value11.Aoperational current with 3 current paths in series at DC-1310.A• at 24 V rated value10.A• at 250 V rated value2.A• at 260 V rated value0.5.A• at 260 V rated value0.5.A• at 800 V rated value0.5.A•	• at 220 V rated value	0.9 A		
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• # 10 V raid value 4.7 A • # 10 V raid value 3 A • # 440 V raid value 0.5 A • # 440 V raid value 0.5 A • # 100 V raid value 0.00 V raid • # 100 V raid value 0.00 V raid • # 100 V raid value 1.000 V raid • # 100 V raid value 0.00 V raid • # 100 V raid value 4.000 V raid • # 100 V raid value 1.000 V raid • # 100 V raid value 4.000 V raid • # 100 V raid value 1.000 V raid • # 100 V raid value 1.000 V raid • # 100 V raid value 1.000 V raid value • # 100 V raid value 1.000 V raid value • # 100 V raid value 1.000 V raid value • # 100 V raid value 1.000 V raid value • # 100 V raid value 0.000 V raid value • # 100 V raid value 0.000 V raid value • # 100 V raid value 0.000 V raid value • # 100 V raid value 0.000 V raid	operational current with 3 current paths in series at DC-13			
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• al 220 Y field value 0.5 A • al 400 Y rated value 0.5 A • al 400 Y rated value 0.5 A • al 400 Y rated value 0.20 A • control rolability frequency at 0.013 maximum 1000 1/n • control rolability of auxiliary controlste 1 faulty switching per 100 million (17 V, 1 mA) ULC5A values - • control rolability of auxiliary controlst 0.00 / 0.000 State rolability of auxiliary controlst 0.00 / 0.000 Control rolability of auxiliary controlst 0.000 / 0.000 State rolability of auxiliary controlst 1.000 rolability on possible on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-22 ° on vertical mounting surface, can be tilted forward and backward by 45-23 ° on vertical mounting surface, can be tilted	• at 60 V rated value	4.7 A		
• # 444 V rated value 0.26 A Operating frequency at DC-13 maximum 1000 1/m design of the miniature circular potectional potectional of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UVCSA ratema 4500 / C600 Shart circular potection potectional potection possible on vertical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° no varical mounting surface; can be tilted forward and backward by v4 - 22.0° now	 at 110 V rated value 	3 A		
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contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection fise gL/gG: 10 A switch required fise gL/gG: 10 A mounting position +/160° rotation possible on vertical mounting surface: can be tilted forward and backward by +/-22.5° on vertical mounting surface. fastening method screw and snap-on mounting onto 35 mm DIN rall height 97.5 mm vertical stacks 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm - forwards 10 mm - outwards 10 mm - at the side 6 mm - outwards 10 mm - outwards 10 mm - forwards 10 mm - outwards 10 mm - at the side 6 mm Occumentions/ Tormanus<	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
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	Electrical Safety			

protection class IP on the	front according to	DIEC 60529)		
touch protection on the front according to IEC 60529		EC 60529 finge	finger-safe, for vertical contact from the front		
Approvals Certificates					
General Product Approva	I				
	CE EG-Konf.	UK CA		<u>Confirmation</u>	
General Product Approva	I	EMV	Test Certificates		Marine / Shipping
KC	EHC	RCM	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS
Marine / Shipping					
		Lloyd's Register us	PRS	RINA	KARS RARS
other		Environment			
<u>Miscellaneous</u>	<u>Confirmation</u>	EPD Typ II/III (with life cylce assessment)			

urther informatio	on
	cided to exit the Russian market (see here). nens.com/global/en/pressrelease/siemens-wind-down-russian-business
Please contact yo	king on the renewal of the current EAC certificates. but 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 rket (other than the sanctioned EAEU member states Russia or Belarus).
Information on t https://support.ind	he packaging dustry.siemens.com/cs/ww/en/view/109813875
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

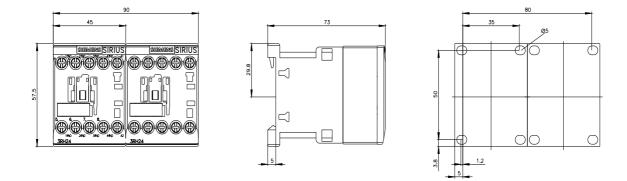
https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1AP00

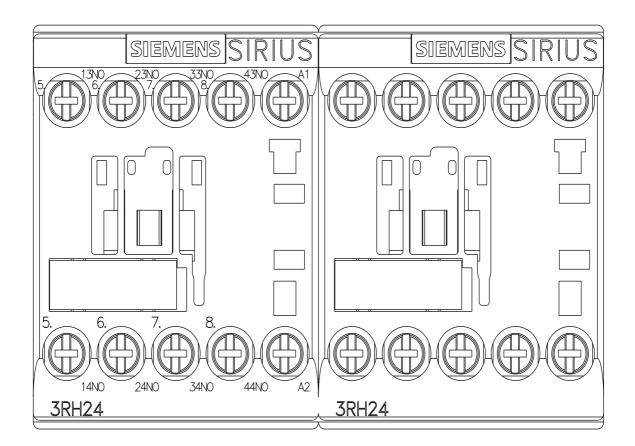
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2440-1AP00&lang=en

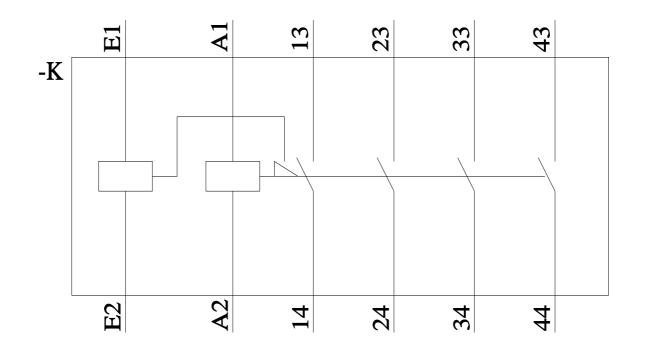
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1AP00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2440-1AP00&objecttype=14&gridview=view1







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