# **SIEMENS**

Data sheet 3RH2440-1BF40

Contactor relay, latched, 4 NO, 110 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
power loss [W] for rated value of the current without load current share typical	4 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 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)	
<ul> <li>of contactor typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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	110 V
operating range factor control supply voltage rated value of magnet coil at DC	
● initial value	0.8

closing power of magnet coil at DC	full-scale value	1.1
Moderning power of magnet coll at DC   4 W   1		
color   colo		
■ at DC		711
Application		30 100 ms
## IDC		30 100 ms
Incompany   Inco		7 13 ms
Auxiliary circuit		
Mumber of NO contacts for auxiliary contacts		10 10 1116
Insulatineous contact   40   10   10   10   10   10   10   10		4
Identification number and letter for switching elements   40   E	-	
Separational current at AC-15		
	·	1071
at 400 V rated value     at 500 V rated value     at 600 V rated value     at 1600 V rated value     at 160 V	•	10 A
• at 500 V rated value   1A		
• at 890 V rated value		
4 C 24 V rated value         10 A           • at 12 4V rated value         3 A           • at 12 20 V rated value         1 A           • at 12 20 V rated value         0.3 A           • at 6000 V rated value         0.16 A           operational current with 2 current paths in series at DC-12         **** <ul></ul>		
• al 110 V rated value		10 A
• at 600 V rated value         0,15 A           operational current with 2 current paths in series at DC-12         10 A           • at 60 V rated value         10 A           • at 160 V rated value         4A           • at 20 V rated value         2A           • at 20 V rated value         0.65 A           • perational current with 3 current paths in series at DC-12         10 A           • at 20 V rated value         10 A           • at 100 V rated value         10 A           • at 100 V rated value         10 A           • at 100 V rated value         3.6 A           • at 100 V rated value         2.5 A           • at 400 V rated value         2.5 A           • at 400 V rated value         1.8 A           • at 220 V rated value         1.8 A           • at 220 V rated value         1.8 A           • at 220 V rated value         1.0 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 100 V rated value         1.3 A           • at 220 V rated value         0.9 A           • at 100 V rated value         0.9 A		
objectational current with 2 current paths in series at DC-12         10 A           at 24 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 450 OV rated value         0.65 A           operational current with 3 current paths in series at DC-12         10 A           at 24 V rated value         10 A           at 110 V rated value         10 A           at 110 V rated value         10 A           at 220 V rated value         3.6 A           at 240 V rated value         1.8 A           operating frequency at DC-12 maximum         100 01/h           operating frequency at DC-12 maximum         100 A           at 240 V rated value         1.0 A           at 24 V rated value         1.0 A           at 24 V rated value         0.3 A           at 24 V rated value         0.14 A           at 24 V rated value         0.14 A           at 25 V rated value         0.14 A           at 25 V rated value         0.10 A           at 25 V rated value         0.10 A           at 26 V rated value         0.10 A           at 27 V rated value         0.10 A		
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• at 60 V rated value         4 A           • at 110 V rated value         4 A           • at 220 V rated value         2 A           • at 440 V rated value         0.65 A           • at 600 V rated value         0.65 A           • operational current with 3 current paths in series at DC-12         1 24 V rated value           • at 80 V rated value         10 A           • at 110 V rated value         3.6 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           • at 24 V rated value         10 O           • at 220 V rated value         10 A           • at 110 V rated value         10 A           • at 120 V rated value         10 A           • at 24 V rated value         0.3 A           • at 220 V rated value         0.3 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.5 A           • at 100 V rated value         0.5 A           • at 400 V rated value         0.9 A           • at 600 V rated value         0.9 A           • at 600 V rated value         0.1 A           • at 600 V rated		10 A
• at 110 V rated value         2 A           • at 220 V rated value         1.3 A           • at 460 V rated value         0.65 A           • operational current with 3 current paths in series at DC-12         10 A           • at 24 V rated value         10 A           • at 110 V rated value         10 A           • at 220 V rated value         3.6 A           • at 460 V rated value         1.8 A           • at 860 V rated value         1.8 A           • at 860 V rated value         1.8 A           • operating frequency at DC-12 maximum         1000 1/h           operating frequency at DC-12 maximum         10 A           • at 24 V rated value         1.8 A           • at 24 V rated value         1.0 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.1 A           • at 220 V rated value         0.1 A           • at 24 V rated value         0.1 A           • at 24 V rated value         1.0 A           • at 24 V rated value         0.1 A           • at 250 V rated value         0.2 A           • at 250 V rated value         0.9 A           • at 250 V rated value         0.1 A           • at 250 V rated value         0.1 A		
• at 220 V rated value         1.3 A           • at 460 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         • at 24 V rated value           • at 60 V rated value         10 A           • at 110 V rated value         10 A           • at 220 V rated value         3.6 A           • at 220 V rated value         2.5 A           • at 600 V rated value         1.8 A           • operating frequency at DC-12 maximum         1000 1/h           operating frequency at DC-42 maximum         10 A           • at 24 V rated value         1.8 A           • at 24 V rated value         10 A           • at 110 V rated value         1 A           • at 220 V rated value         0.14 A           • at 440 V rated value         0.14 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.2 A           • at 110 V rated value         0.9 A           • at 220 V rated value         0.9 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A </td <td></td> <td></td>		
• at 440 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         • at 24 V rated value           • at 60 V rated value         10 A           • at 110 V rated value         10 A           • at 110 V rated value         3.6 A           • at 440 V rated value         2.5 A           • at 600 V rated value         2.5 A           • at 600 V rated value         1.00 1/h           operating frequency at DC-12 maximum         1 000 1/h           operating frequency at DC-12 maximum         1 0 A           • at 24 V rated value         1 A           • at 220 V rated value         1 A           • at 220 V rated value         0.14 A           • at 440 V rated value         0.14 A           • at 600 V rated value         0.14 A           • at 600 V rated value         3.5 A           • at 24 V rated value         3.5 A           • at 110 V rated value         0.9 A           • at 220 V rated value         0.9 A           • at 220 V rated value         0.1 A           • at 400 V rated value         0.1 A           • at 400 V rated value         0.2 A           • at 600 V rated value         0.1 A           • at 600 V rated value         4.7 A		
• at 600 V rated value         0,65 A           operational current with 3 current paths in series at DC-12         10 A           • at 24 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         1000 1/h           operating frequency at DC-12 maximum         10 A           • at 24 V rated value         10 A           • at 110 V rated value         1,4           • at 220 V rated value         0,3 A           • at 440 V rated value         0,14 A           • at 600 V rated value         0,14 A           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 25 V rated value         10 A           • at 25 V rated value         0.9 A           • at 44 V rated value         0.9 A           • at 44 V rated value         0.2 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.2 A           • at		
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	•	10 A
at 110 V rated value     at 220 V rated value     at 440 V rated value     at 600 V rated value     at 260 V rated value     at 110 V rated value     at 110 V rated value     at 110 V rated value     at 440 V rated value     at 440 V rated value     at 600 V rated value     at 600 V rated value     at 24 V rated value     at 24 V rated value     at 260 V rated value     at 27 V rated value     at 27 V rated value     at 28 V rated value     at 29 V rated value     at 29 V rated value     at 20 V rated value     at 440 V rated value     at 440 V rated value     at 440 V rated value     at 600 V rated value     at 600 V rated value     at 600 V rated value     at 20 V rated value     at 20 V rated value     at 20 V rated value     at 440 V rated value     at 40 V rated value		
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• at 600 ∨ rated value         1.8 A           operating frequency at DC-12 maximum         1 000 1/h           operational current at 1 current path at DC-13		
operating frequency at DC-12 maximum         1 000 1/h           operational current at 1 current path at DC-13         10 A           • at 24 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         10 A           • at 24 V rated value         10 A           • at 60 V rated value         3.5 A           • at 110 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         10 A           • at 24 V rated value         0.1 A           operational current with 3 current paths in series at DC-13         10 A           • at 24 V rated value         0.1 A           • at 24 V rated value         0.1 A           • at 24 V rated value         0.5 A           • at 440 V rated value         0.5 A           • at 440 V rated value         0.5 A           • at 440 V rated value         0.5 A           • at 450 V rated value         0.5 A           • at 460 V rated value         0.5 A           <		
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<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 7 A</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 7</li></ul>		
● 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       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       10 A         ● at 24 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		
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       0.9 A         • at 220 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       10 A         • at 24 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		
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<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li></ul>		
<ul> <li>at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>1.2 A</li> <li>at 600 V rated value</li> <li>0.26 A</li> <li>operating frequency at DC-13 maximum</li> <li>1 000 1/h</li> </ul>		
operational current with 3 current paths in series at DC-13  • at 24 V rated value  • at 60 V rated value  • at 110 V rated value  • at 220 V rated value  • at 220 V rated value  • at 440 V rated value  • at 600 V rated value  • at 600 V rated value  • at 600 V rated value  1.2 A  • at 600 V rated value  0.5 A  • at 600 V rated value  1.000 1/h		
<ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-13 maximum</li> <li>1000 1/h</li> </ul>		
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<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-13 maximum</li> <li>3 A</li> <li>1.2 A</li> <li>0.5 A</li> <li>0.26 A</li> <li>0.26 A</li> </ul>		
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-13 maximum</li> <li>1.2 A</li> <li>0.5 A</li> <li>0.26 A</li> <li>1.2 DA</li> <li>1.2 A</li> <l< td=""><td></td><td></td></l<></ul>		
● 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		
• at 600 V rated value 0.26 A  operating frequency at DC-13 maximum 1 000 1/h		
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

of the auxiliary circuit up to 230 V	
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 required	fuse gL/gG: 10 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
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	57.5 mm
width	90 mm
depth	73 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
Safety related data	
product function positively driven operation according to IEC 60947-5-1	Yes
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	

General Product Approval



Confirmation





<u>KC</u>



Functional  EMC Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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#### Type Examination Cer**tificate**





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

Railway

**Dangerous Good** 



Confirmation



Vibration and Shock

**Transport Information** 

### Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your 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 EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RH2440-1BF40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2440-1BF40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1BF40

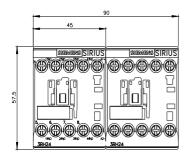
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

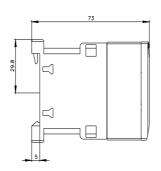
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2440-1BF40&lang=en

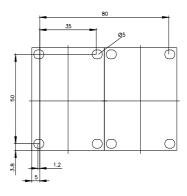
Characteristic: Tripping characteristics, I2t, Let-through current

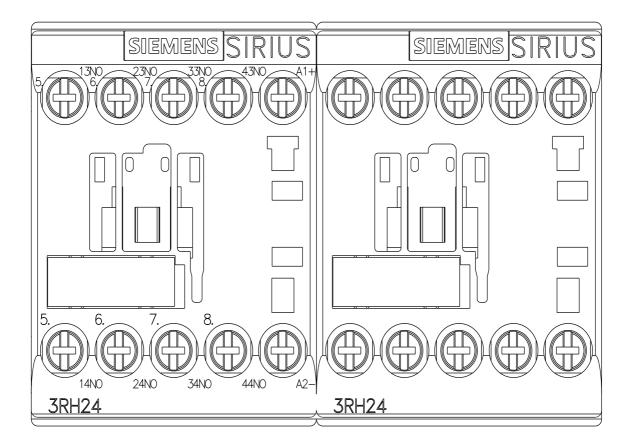
https://support.industry.siemens.com/cs/ww/en/ps/3RH2440-1BF40/char

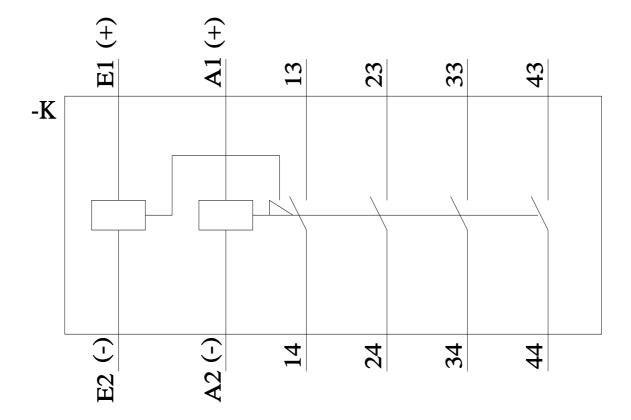
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2440-1BF40&objecttype=14&gridview=view1











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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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