



output coupler with plug-in relay, 115 V AC/DC, 1 change-over contact, spring-loaded terminal (push-in), width 6.2 mm, thermal current 6 A, hard gold-plated

product brand name	SIRIUS
product category	SIRIUS 3RQ4 coupling relay, narrow design
product designation	Coupling relay with plug-in relay
design of the product	output coupling link
product type designation	3RQ4
<b>General technical data</b>	
display version LED	Yes
product feature protective coating on printed-circuit board	No
product component	
• relay output	Yes
• semi-conductor output	No
power loss [W] maximum	0.8 W
consumed active power	0.5 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
surge voltage resistance rated value	4 kV
maximum permissible voltage for protective separation	
• between control and auxiliary circuit	300 V
• between control and auxiliary circuit according to IEC 60947-1	300 V
percental drop-out voltage related to the input voltage	9.6 %
flammability class of enclosure material	UL94 V-0
shock resistance	
• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance	
• according to IEC 60068-2-6	6 ... 150 Hz: 2 g
operating frequency maximum	72 000 1/h
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles)	
• at AC-15 at 250 V typical	100 000
thermal current	6 A
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	09/26/2024
SVHC substance name	Lead - 7439-92-1
Weight	34 g
<b>Control circuit/ Control</b>	
control supply voltage at AC	
• at 50 Hz rated value	115 V
• at 60 Hz rated value	115 V
control supply voltage frequency	

<ul style="list-style-type: none"> <li>• 1 rated value</li> </ul>	50 Hz
<ul style="list-style-type: none"> <li>• 2 rated value</li> </ul>	60 Hz
<b>control supply voltage at DC rated value</b>	115 V
<b>operating range factor control supply voltage rated value at DC</b>	
<ul style="list-style-type: none"> <li>• initial value</li> </ul>	0.8
<ul style="list-style-type: none"> <li>• full-scale value</li> </ul>	1.1
<b>operating range factor control supply voltage rated value at AC at 50 Hz</b>	
<ul style="list-style-type: none"> <li>• initial value</li> </ul>	0.8
<ul style="list-style-type: none"> <li>• full-scale value</li> </ul>	1.1
<b>operating range factor control supply voltage rated value at AC at 60 Hz</b>	
<ul style="list-style-type: none"> <li>• initial value</li> </ul>	0.8
<ul style="list-style-type: none"> <li>• full-scale value</li> </ul>	1.1
<b>ON-delay time</b>	
<ul style="list-style-type: none"> <li>• at AC maximum</li> </ul>	10 ms
<ul style="list-style-type: none"> <li>• at DC maximum</li> </ul>	6 ms
<b>OFF-delay time maximum</b>	10 ms
<b>Switching Function</b>	
<b>design of the switching function positively driven</b>	No
<b>Digital Outputs</b>	
<b>property of the output short-circuit proof</b>	No
<b>Mechanical data</b>	
<b>product component plug-in socket</b>	Yes
<b>design of the relay operating mechanism</b>	poled
<b>Short-circuit protection</b>	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gG: 4 A
<b>Auxiliary circuit</b>	
<b>type of switching contact</b>	Changeover contact
<b>material of contact coating</b>	hard gold-plated
<b>material of switching contacts</b>	AgSnO2 hard gold-plated
number of CO contacts for auxiliary contacts	1
<b>operational current of auxiliary contacts at AC-15</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	3 A
<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	3 A
<b>operational current of auxiliary contacts at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 125 V</li> </ul>	0.2 A
<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	0.1 A
<b>contact reliability of auxiliary contacts</b>	one incorrect switching operation of 100 million switching operations (5 V, 1 mA)
<b>Main circuit</b>	
<b>type of voltage</b>	AC/DC
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	3 A
<b>ampacity of the output relay at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	1 A
<ul style="list-style-type: none"> <li>• at 125 V</li> </ul>	0.2 A
<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	0.1 A
<b>Electromagnetic compatibility</b>	
<b>electromagnetic compatibility</b>	acc. to EN 60947-5-1
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
<b>conducted interference</b>	
<ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
<b>Display</b>	

display version as status display by LED	LED green	
Connections/ Terminals		
product function removable terminal	No	
type of electrical connection		
<ul style="list-style-type: none"><li>for auxiliary and control circuit</li></ul>	spring-loaded terminals (push-in)	
type of connectable conductor cross-sections		
<ul style="list-style-type: none"><li>solid</li></ul>	1x (0.25 ... 2.5 mm²)	
<ul style="list-style-type: none"><li>finely stranded with core end processing</li></ul>	1x (0.25 ... 1.5 mm²)	
<ul style="list-style-type: none"><li>finely stranded without core end processing</li></ul>	1x (0.25 ... 2.5 mm²)	
<ul style="list-style-type: none"><li>for AWG cables solid</li></ul>	1 x (20 ... 14)	
<ul style="list-style-type: none"><li>for AWG cables stranded</li></ul>	1x (20 ... 14)	
connectable conductor cross-section		
<ul style="list-style-type: none"><li>solid</li></ul>	0.25 ... 2.5 mm²	
<ul style="list-style-type: none"><li>finely stranded with core end processing</li></ul>	0.25 ... 1.5 mm²	
<ul style="list-style-type: none"><li>finely stranded without core end processing</li></ul>	0.25 ... 2.5 mm²	
AWG number as coded connectable conductor cross section		
<ul style="list-style-type: none"><li>solid</li></ul>	20 ... 14	
<ul style="list-style-type: none"><li>stranded</li></ul>	20 ... 14	
size of the screwdriver tip	PZ1	
stripped length	10 mm	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	snap-on mounting	
height	93 mm	
width	6.2 mm	
depth	88.5 mm	
required spacing		
<ul style="list-style-type: none"><li>with side-by-side mounting<ul style="list-style-type: none"><li>forwards</li><li>backwards</li><li>upwards</li><li>downwards</li><li>at the side</li></ul></li></ul>	0 mm 0 mm 0 mm 0 mm 0 mm	
<ul style="list-style-type: none"><li>for grounded parts<ul style="list-style-type: none"><li>forwards</li><li>backwards</li><li>upwards</li><li>at the side</li><li>downwards</li></ul></li></ul>	0 mm 0 mm 0 mm 0 mm 0 mm	
<ul style="list-style-type: none"><li>for live parts<ul style="list-style-type: none"><li>forwards</li><li>backwards</li><li>upwards</li><li>downwards</li><li>at the side</li></ul></li></ul>	0 mm 0 mm 0 mm 0 mm 0 mm	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul style="list-style-type: none"><li>during operation</li></ul>	-25 ... +60 °C	
<ul style="list-style-type: none"><li>during storage</li></ul>	-40 ... +85 °C	
<ul style="list-style-type: none"><li>during transport</li></ul>	-40 ... +85 °C	
relative humidity during operation	10 ... 95 %	
Approvals Certificates		
General Product Approval	other	Environment



[Confirmation](#)



## Further information

### 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=3RQ4118-2AE01>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ4118-2AE01>

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

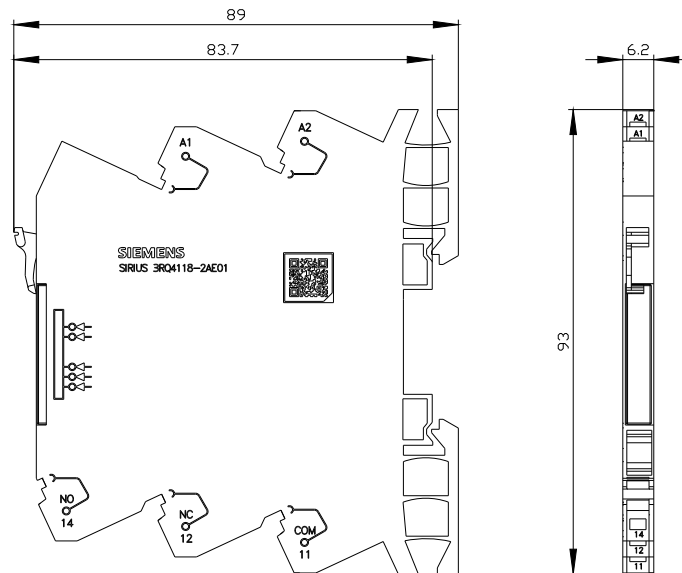
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ4118-2AE01>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ4118-2AE01&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ4118-2AE01&lang=en)

### Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ4118-2AE01/manual>



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