## **SIEMENS**

Data sheet 3RQ4118-2AB00



output coupler with plug-in relay, 24 V AC/DC, 1 change-over contact, spring-loaded terminal (push-in), width 6.2 mm, thermal current 6 A  $\,$ 

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
General technical data	
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	0.25 W
consumed active power	0.3 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	
<ul> <li>between control and auxiliary circuit</li> </ul>	300 V
<ul> <li>between control and auxiliary circuit according to IEC 60947-1</li> </ul>	300 V
percental drop-out voltage related to the input voltage	10 %
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	К
Substance Prohibitance (Date)	09/26/2024
Weight	34 g
Control circuit/ Control	
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage frequency	
1 rated value	50 Hz

### A rate value operating range factor control supply voltage rated value at Celebrating range factor control range according to EC 61000.4.5  **AC EXECUTION CONTROL RANGE Range according to EC 61000.4.5  **AC Execution Range factor control range according to EC 61000.4.5  **AC Execution Range factor control range according to EC 61000.4.5  **AC Execution Range factor control range according to EC 61000.4.5  **AC Execution R	• 2 rated value	60 Hz
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• Iuli scale value   1.25		
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AC at 9 ftz    initial value   1,25	• full-scale value	1.25
Mulscale value   1,25   2,2		
operating range factor control supply voltage rated value at AC at 80 Hz   initial value   ini	● initial value	0.8
AC at 60 Hz  Initial value  Initial value  A Initial valu		1.25
• full-scale value  • at AC maximum  • at DC maximum  • at DC maximum  • at DC maximum  10 ms  Switching Function  design of the switching function positively driven  Digital Outputs  proporty of the output relay at AC-15 at 250 V at 50/60 Hz  at 25 V  • at 125 V  • at		
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type of switching contacts material of switching contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15  • at 24 V • at 250 V operational current of auxiliary contacts at DC-13  • at 24 V • at 125 V • at 250 V 0.1 A  contact reliability of auxiliary contacts  make in a contact reliability of auxiliary contacts  Main circuit type of voitage ampacity of the output relay at AC-15 at 250 V at 50/60 Hz at 250 V 0.1 A  anapacity of the output relay at DC-13 • at 24 V • at 125 V 0.2 A ampacity of the output relay at DC-13 • at 25 V 0.2 A 0.1 A  anapacity of the output relay at DC-13 • at 25 V 0.1 A  contact reliability • at 125 V 0.2 A 0.1 A  Electromagnetic compatibility electromagnetic compatibility electromagnetic compatibility  Electromagnetic compatibility ac. to EN 60947-5-1  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-3 • field-based interference according to IEC 61000-4-3 • dectrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  LED green	·	
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one incorrect switching operation of 100 million switching operations (17 V, 5 mA)  Main circuit  type of voltage     ampacity of the output relay at AC-15 at 250 V at 50/60 Hz		
contact reliability of auxiliary contacts  Main circuit  type of voltage  ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  ampacity of the output relay at DC-13  at 24 V  at 125 V  at 250 V  1 A  Electromagnetic compatibility  electromagnetic compatibility  electromagnetic dinterference according to IEC 61000-4-5  at 02 bV  conducted interference  due to conductor-conductor surge according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  bisplay  display version as status display by LED  AC/DC  3 A  AC/DC  3 A  3 A  4 AC/DC  4 AC/DC		
type of voltage ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13  • at 24 V • at 125 V • at 250 V • at 250 V  Electromagnetic compatibility electromagnetic compatibility acc. to EN 60947-5-1  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-cardin surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  LED green		
type of voltage ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13  • at 24 V • at 125 V • at 250 V  • at 250 V  • at 260 V  • a		
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz  ampacity of the output relay at DC-13  • at 24 V  • at 125 V  • at 250 V  • at 250 V  Electromagnetic compatibility  electromagnetic compatibility  acc. to EN 60947-5-1  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  LED green		
ampacity of the output relay at DC-13  • at 24 V  • at 125 V  • at 250 V  • at 250 V  • at 260 V  • at 250 V  • at		
at 24 V at 125 V at 250 V  Clectromagnetic compatibility  electromagnetic compatibility  electromagnetic compatibility  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  corresponds to degree of severity 3  conducted interference  due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-2 display version as status display by LED  LED green		3 A
at 125 V at 250 V  0.1 A  Electromagnetic compatibility  electromagnetic compatibility  acc. to EN 60947-5-1  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  corresponds to degree of severity 3  conducted interference  at due to burst according to IEC 61000-4-4  at due to conductor-earth surge according to IEC 61000-4-5  at due to conductor-conductor surge according to IEC  field-based interference according to IEC 61000-4-3  field-based interference according to IEC 61000-4-2		
o at 250 V      Electromagnetic compatibility     electromagnetic compatibility     acc. to EN 60947-5-1  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  corresponds to degree of severity 3  conducted interference     o due to burst according to IEC 61000-4-4     o due to conductor-earth surge according to IEC 61000-4-5     o due to conductor-conductor surge according to IEC     fleld-based interference according to IEC 61000-4-3  fleld-based interference according to IEC 61000-4-2  Display  display version as status display by LED  LED green		
electromagnetic compatibility electromagnetic compatibility 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  conducted interference  • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  LED green		
electromagnetic compatibility  acc. to EN 60947-5-1  EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  corresponds to degree of severity 3  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • field-based interference according to IEC 61000-4-3  field-based interference according to IEC 61000-4-2  Display  display version as status display by LED  LED green		0.1 A
EMC emitted interference according to IEC 60947-1  EMC immunity according to IEC 60947-1  corresponds to degree of severity 3  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  ambience A (industrial sector)  acresponds to degree of severity 3  2 kV  6 kV  at V  but Alice A (industrial sector)  ambience A (industrial sector)  alice A (industrial sector)  acresponds to degree of severity 3  and industrial sector)  acresponds to degree of severity 3  and industrial sector)  acresponds to degree of severity 3  and industrial sector)  acresponds to degree of severity 3  acresponds to degree of se		
conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • field-based interference according to IEC 61000-4-3  field-based interference according to IEC 61000-4-2  field-based interference according to IEC 61000-4-3  to V/m  electrostatic discharge according to IEC 61000-4-2  LED green		
conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  field-based interference according to IEC 61000-4-2  LED green	·	
due to burst according to IEC 61000-4-4     due to conductor-earth surge according to IEC 61000-4-5     due to conductor-conductor surge according to IEC     61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  LED green	· · · · · · · · · · · · · · · · · · ·	corresponds to degree of severity 3
• due to conductor-earth surge according to IEC 61000-4-5     • due to conductor-conductor surge according to IEC 1 kV 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  LED green		
due to conductor-conductor surge according to IEC     61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  1 kV  10 V/m  6 kV contact discharge / 8 kV air discharge  LED green	_	
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Display display version as status display by LED  LED green		
electrostatic discharge according to IEC 61000-4-2  Display  display version as status display by LED  6 kV contact discharge / 8 kV air discharge	61000-4-5	
Display display version as status display by LED  LED green		
display version as status display by LED LED green		6 kV contact discharge / 8 kV air discharge
Connections/ Terminals		LED green
	Connections/ Terminals	

product function removable terminal	No
type of electrical connection	
for auxiliary and control circuit	spring-loaded terminals (push-in)
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm²)
finely stranded without core end processing	1x (0.25 2.5 mm²)
for AWG cables solid	1 x (20 14)
for AWG cables stranded	1x (20 14)
connectable conductor cross-section	
• solid	0.25 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²
finely stranded without core end processing	0.25 2.5 mm²
AWG number as coded connectable conductor cross section	
• solid	20 14
stranded	20 14
size of the screwdriver tip	PZ1
stripped length	10 mm
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	93 mm
width	6.2 mm
depth	88.5 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation	10 95 %
Approvals Certificates	
General Product Ap-	n¢
proval other Environmen	

EAC

Confirmation



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=3RQ4118-2AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ4118-2AB00

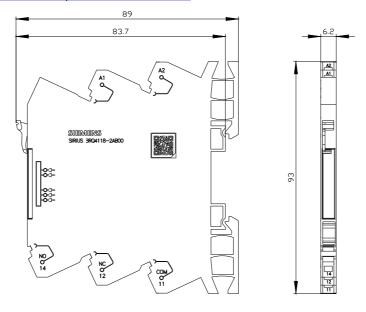
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RQ4118-2AB00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ4118-2AB00&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ4118-2AB00&lang=en</a>

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RQ4118-2AB00/manual



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