## **SIEMENS**

Data sheet 3RQ1200-2EB00



force-guided coupling relay in industrial enclosure 1 NO contact / 1 NC contact (24 V) 24 V DC SIL 3 / PL e spring-loaded terminal (push-in)

product brand name	SIRIUS
product designation	force-guided coupling relay
design of the product	fail-safe up to SIL 3/PL &DPMD_ABJ728_001_000_3RQ2&
product type designation	3RQ1
General technical data	
product feature protective coating on printed-circuit board	No
consumed active power	0.9 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
degree of pollution	3
surge voltage resistance rated value	4 kV
shock resistance	
• according to IEC 60068-2-27	11g / 15 ms
vibration resistance	
• according to IEC 60068-2-6	10 55 Hz: 0.35 mm
operating frequency maximum	360 1/h
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	05/31/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	0.166 kg
Product Function	
suitability for operation device connector 3ZY12	Yes
Control circuit/ Control	
control supply voltage 1 at DC rated value	24 V
control supply voltage 1 at DC	24 24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.8
full-scale value	1.2
ON-delay time	
at AC maximum	15 ms
at DC maximum	15 ms
OFF-delay time maximum	35 ms
Switching Function	
design of the switching function	NO contact

Mechanical data	
product component plug-in socket	No
design of the relay operating mechanism	poled
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	NO: fuse gL/gG: 6 A; NC: fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgNi + Au flash
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
type of voltage	DC
Inputs/ Outputs	
output current minimum	1 mA
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	2 A
ampacity of the output relay at DC-13	
• at 24 V	2 A
• at 125 V	0.2 A
• at 250 V	0.1 A
Electromagnetic compatibility	
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	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV
• due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to ground)
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV (line to line)
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging, 8 kV air discharging
Safety related data	
Safety related data	
product function	
	Yes
product function	Yes
product function  • positively driven operation according to IEC 60947-5-1	Yes No
product function  • positively driven operation according to IEC 60947-5-1 suitability for use	
product function	No
product function	No Yes
product function	No Yes safe shutdown
product function  ● positively driven operation according to IEC 60947-5-1  suitability for use  ● safety-related switching on  ● safety-related switching OFF  safe state  test wear-related service life necessary  stop category according to IEC 60204-1  IEC 62061	No Yes safe shutdown Yes
product function	No Yes safe shutdown Yes 0
product function	No Yes safe shutdown Yes
product function	No Yes safe shutdown Yes 0
product function	No Yes safe shutdown Yes 0 SIL 3
product function	No Yes safe shutdown Yes 0 SIL 3 PL e 4
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1
product function	No Yes safe shutdown Yes 0 SIL 3 PL e 4
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No 3 Type A 5E-10 1/h
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No 3 Type A 5E-10 1/h 8E-7
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No 3  Type A 5E-10 1/h 8E-7 99 %
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No  3  Type A 5E-10 1/h 8E-7 99 % 1
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No 3  Type A 5E-10 1/h 8E-7 99 %
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No  3  Type A 5E-10 1/h 8E-7 99 % 1
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No 3 Type A 5E-10 1/h 8E-7 99 % 1 20 a
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No 3  Type A 5E-10 1/h 8E-7 99 % 1 20 a  Yes  spring-loaded terminal (push-in)
product function	No Yes safe shutdown Yes 0  SIL 3  PL e 4 1 No 3 Type A 5E-10 1/h 8E-7 99 % 1 20 a

• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
• for AWG cables solid	20 12
connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing maximum</li> </ul>	2.5 mm²
• finely stranded without core end processing minimum	0.5 mm²
AWG number as coded connectable conductor cross section	
• solid	12 20
stranded	12 20
stripped length of the cable for auxiliary and control contacts	10 mm
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	100 mm
width	17.5 mm
depth	120 mm
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	-40 +80 °C
during transport	-40 +80 °C
relative humidity during operation	10 95 %
Approvals Certificates	

General Product Approval





Confirmation







General Product Approval EMV Marine / Shipping other Environment







Confirmation

Environmental Confirmations

## 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=3RQ1200-2EB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ1200-2EB00

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

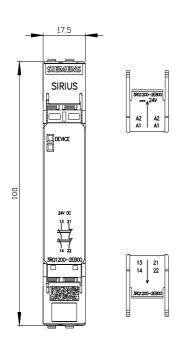
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RQ1200-2EB00}$ 

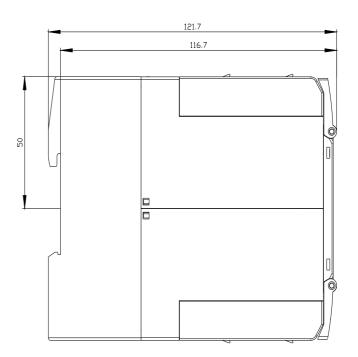
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

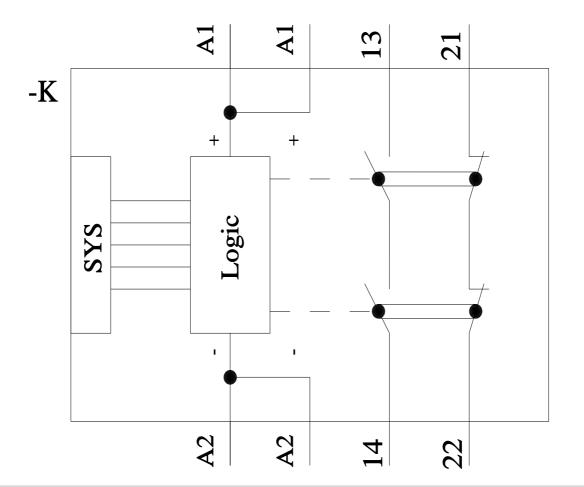
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ1200-2EB00&lang=en

**Characteristic: Derating** 

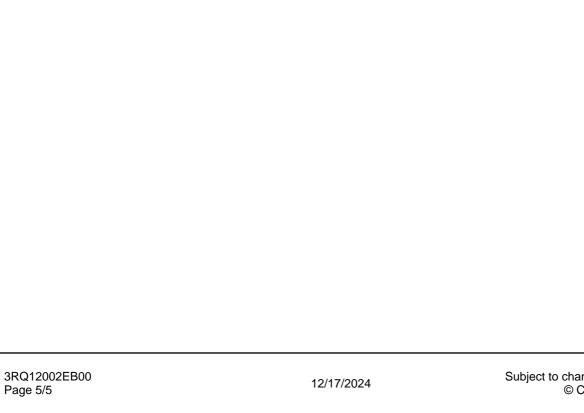
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