## **SIEMENS**

Data sheet 3RQ2000-1AW00



Coupling relay in industrial enclosure 1 changeover contact Wide voltage range 24 V to 240 V AC/DC Screw terminals

| product designation Co  | oupling relay in industrial enclosure |
|---|---------------------------------------|
|   | - F - 5                               |
| product type designation 3R   | Q2                                    |
| General technical data  |                                       |
| consumed active power 4 V   | N                                     |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 0 V                                   |
| degree of pollution 3   |                                       |
| surge voltage resistance rated value 4 k  | ¢V                                    |
| maximum permissible voltage for safe isolation  |                                       |
| <ul> <li>between auxiliary and auxiliary circuit</li> </ul>   | 0 V                                   |
| • between control and auxiliary circuit according to IEC 60947-1  | 0 V                                   |
| protection class IP IP2   | 20                                    |
| shock resistance  |                                       |
| • according to IEC 60068-2-27 11g   | g / 15 ms                             |
| • for railway applications according to EN 61373 Ca   | ategory 1, Class B                    |
| vibration resistance  |                                       |
| • according to IEC 60068-2-6 10   | 55 Hz: 0.35 mm                        |
| • for railway applications according to EN 61373 Ca   | ategory 1, Class B                    |
| switching behavior mo   | onostable                             |
| mechanical service life (switching cycles) typical 10   | 000 000                               |
| electrical endurance (switching cycles) at AC-15 at 230 V typical   | 0 000                                 |
| thermal current of the switching element with contacts maximum 5 A  | A .                                   |
| reference code according to IEC 81346-2 K   |                                       |
| Substance Prohibitance (Date) 05/   | /31/2018                              |
| Control circuit/ Control  |                                       |
| control supply voltage 1 at AC  |                                       |
| • at 50 Hz 24   | 240 V                                 |
| • at 60 Hz 24   | 240 V                                 |
| control supply voltage 1  |                                       |
| • at DC 24  | 240 V                                 |
| operating range factor control supply voltage rated value at DC   |                                       |
| • initial value 0.7   | 7                                     |
| • full-scale value 1.1  | 1                                     |
| operating range factor control supply voltage rated value at AC at 50 Hz                                      |                                       |
| • initial value 0.7   | 7                                     |

| • full-scale value   | 1.1   |
|--|---|
| operating range factor control supply voltage rated value at AC at 60 Hz   |   |
|  | 0.7   |
| • initial value  | 0.7   |
| • full-scale value   | 1.1   |
| ON-delay time  | 40  |
| • at AC maximum  | 10 ms   |
| at DC maximum  | 10 ms   |
| OFF-delay time   | 100 ms  |
| design of the relay operating mechanism  | poled   |
| product component plug-in socket   | No  |
| Short-circuit protection   |   |
| design of the fuse link for short-circuit protection of the auxiliary switch required  | fuse gL/gG: 6 A   |
| Auxiliary circuit  |   |
| material of switching contacts   | AgSnO2  |
| number of NC contacts for auxiliary contacts   | 0   |
| number of NO contacts for auxiliary contacts   | 0   |
| number of CO contacts for auxiliary contacts   | 1   |
| contact reliability of auxiliary contacts  | one incorrect switching operation of 100 million switching operations (17   |
|  | V, 5 mA)  |
| type of voltage  | AC/DC   |
| ampacity of the output relay at AC-15  |   |
| • at 24 V at 50/60 Hz  | 3 A   |
| ● at 110 V at 50/60 Hz   | 3 A   |
| • at 250 V at 50/60 Hz   | 3 A   |
| ampacity of the output relay at DC-13  |   |
| ● at 24 V  | 1 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)  |
|  | ambience A (industrial sector) corresponds to degree of severity 3  |
| EMC emitted interference according to IEC 60947-1  | · · · · · · · · · · · · · · · · · · ·   |
| EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1  | · · · · · · · · · · · · · · · · · · ·   |
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| contacts  |  |
|---|--|
| Installation/ mounting/ dimensions                      |  |
| mounting position                                       | any  |
| fastening method  | screw and snap-on mounting onto 35 mm standard mounting rail |
| height  | 100 mm   |
| width   | 22.5 mm  |
| depth   | 90 mm  |
| Ambient conditions                                      |  |
| installation altitude at height above sea level maximum | 2 000 m  |
| ambient temperature                                     |  |
| <ul> <li>during operation</li> </ul>                    | -40 +60 °C   |
| <ul> <li>during storage</li> </ul>                      | -40 +80 °C   |
| during transport  | -40 +80 °C   |
| relative humidity during operation                      | 10 95 %  |
| Certificates/ approvals                                 |  |

**General Product Approval** 







Confirmation







**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

Railway



Confirmation

other

Confirmation

## Further informatior

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=3RQ2000-1AW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ2000-1AW00

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

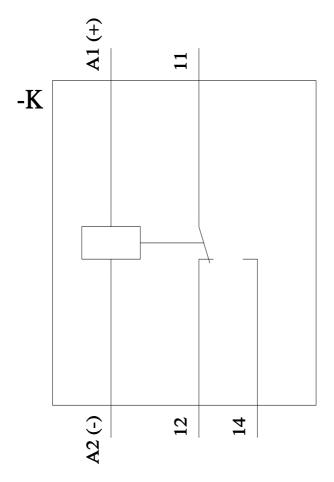
https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-1AW00

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ2000-1AW00&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RQ2000-1AW00/manual



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