



SIMATIC ET 200SP, Signal relay module, RQ CO 4x 24V DC/2A ST, 4 changeover contacts, isolated contacts, packing unit: 1 piece, fits to BU-type A0, Colour Code CC00, substitute value output, module diagnostics for: supply voltage

General information	
Product type designation	RQ CO 4x24VDC/2A ST
HW functional status	From FS02
Firmware version	V0.0
• FW update possible	No
usable BaseUnits	BU type A0
Color code for module-specific color-coded label	CC00
Product function	
• I&M data	Yes; I&M0 to I&M3
• Isochronous mode	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V14
• STEP 7 configurable/integrated from version	V5.5 SP3
• PROFIBUS from GSD version/GSD revision	One GSD file each, Revision 3 and 5 and higher
• PROFINET from GSD version/GSD revision	GSDML V2.3
Operating mode	
• DQ	Yes
• DQ with energy-saving function	No
• PWM	No
• Oversampling	No
• MSO	No
Redundancy	
• Redundancy capability	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption (rated value)	50 mA
Power loss	
Power loss, typ.	1.2 W
Address area	
Address space per module	
• Inputs	+ 1 byte for QI information
• Outputs	1 byte
Hardware configuration	
Automatic encoding	Yes
• Mechanical coding element	Yes

• Type of mechanical coding element	type C
<b>Digital outputs</b>	
Type of digital output	Relays
Number of digital outputs	4
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
<b>Parallel switching of two outputs</b>	
• for logic links	Yes
• for uprating	No
• for redundant control of a load	Yes
<b>Switching frequency</b>	
• with resistive load, max.	2 Hz
<b>Total current of the outputs</b>	
• Current per channel, max.	2 A
• Current per module, max.	8 A
<b>Total current of the outputs (per module)</b>	
horizontal installation	
— up to 40 °C, max.	8 A
— up to 50 °C, max.	6 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 30 °C, max.	8 A
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
<b>Relay outputs</b>	
• Number of relay outputs	4
• Rated supply voltage of relay coil L+ (DC)	24 V
• Current consumption of relays (coil current of all relays), max.	40 mA
• Number of operating cycles, max.	500 000
<b>Switching capacity of contacts</b>	
— with resistive load, max.	2 A
— Thermal continuous current, max.	2 A
— Switching current, min.	1 mA; 5 V DC
— Rated switching voltage (DC)	24 V
— Rated switching voltage (AC)	24 V
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	200 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes
Substitute values connectable	Yes
<b>Alarms</b>	
• Diagnostic alarm	Yes
<b>Diagnoses</b>	
• Monitoring the supply voltage	Yes
• Wire break	No
• Short-circuit	No
<b>Diagnostics indication LED</b>	
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
• Channel status display	Yes; green LED
• for channel diagnostics	No
• for module diagnostics	Yes; green/red DIAG LED
<b>Potential separation</b>	
Potential separation channels	
• between the channels	Yes
• between the channels and backplane bus	Yes

- between the channels and the power supply of the electronics

Yes

**Isolation**

Isolation tested with 707 V DC (type test)

**Standards, approvals, certificates**

Suitable for safety functions No

**Ecological footprint**

- environmental product declaration Yes

**Global warming potential**

— global warming potential, (total) [CO2 eq]	25.5 kg
— global warming potential, (during production) [CO2 eq]	3.54 kg
— global warming potential, (during operation) [CO2 eq]	22.1 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.137 kg

**Ambient conditions**

**Ambient temperature during operation**

- horizontal installation, min. -30 °C
- horizontal installation, max. 60 °C
- vertical installation, min. -30 °C
- vertical installation, max. 50 °C

**Altitude during operation relating to sea level**

- Installation altitude above sea level, max. 2 000 m; On request: Installation altitudes greater than 2 000 m

**Absolute humidity**

- dew point, min. -60 °C; suitable for dry room applications

**Dimensions**

Width	15 mm
Height	73 mm
Depth	58 mm

**Weights**

Weight, approx. 30 g

**Classifications**

	Version	Classification
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

**Approvals / Certificates**

**General Product Approval**

[Miscellaneous](#)



[Manufacturer Declaration](#)



General Product Approval For use in hazardous locations



[China RoHS](#)



EG-Konf.



UL

For use in hazardous locations

Maritime application

[EM](#)



ABS



BUREAU  
VERITAS



DNV



LRS

[NK / Nippon Kaiji Kyokai](#)

Maritime application

Environment



RINA



RMRS

[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)



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