



SIMATIC ET 200SP, relay module, RQ CO 3x 120V DC..230VAC/5A ST, 3 CO contacts isolated contacts, packing unit: 1 unit, suitable for BU type U0, color code CC20, substitute value output, module diagnostics for supply voltage

General information	
Product type designation	RQ 3x120VDC-230VAC/5A CO ST
Firmware version	V0.0
• FW update possible	No
usable BaseUnits	BU type U0
Color code for module-specific color identification plate	CC20
Product function	
• I&M data	Yes; I&M0 to I&M3
• Isochronous mode	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	STEP 7 V16 or higher
• STEP 7 configurable/integrated from version	Configurable via GSD file
• PROFIBUS from GSD version/GSD revision	One GSD file each, Revision 3 and 5 and higher
• PROFINET from GSD version/GSD revision	GSDML V2.34
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)	40 mA; without load
Current consumption, max.	55 mA
output voltage / header	
Rated value (AC)	230 V
Power loss	
Power loss, typ.	1.6 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
Selection of BaseUnit for connection variants	
• 2-wire connection	BU type U0
• 3-wire connection	BU type U0
Digital outputs	
Type of digital output	Relays
Number of digital outputs	3

Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
Switching capacity of the outputs	
• with resistive load, max.	5 A; for an additional description, see the Technical Data in the Equipment Manual
• with inductive load, max.	2 A; for an additional description, see the Technical Data in the Equipment Manual
Parallel switching of two outputs	
• for logic links	Yes
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	2 Hz
Total current of the outputs	
• Current per channel, max.	5 A
• Current per module, max.	15 A
Total current of the outputs (per module)	
horizontal installation	
— up to 50 °C, max.	15 A
— up to 60 °C, max.	12 A; maximum channel current 4A
vertical installation	
— up to 40 °C, max.	15 A
— up to 50 °C, max.	12 A; maximum channel current 4A
Relay outputs	
• Number of relay outputs	3; changeover contact, isolated
• Rated supply voltage of relay coil L+ (DC)	24 V
• Current consumption of relays (coil current of all relays), max.	30 mA
• external protection for relay outputs	yes, with miniature fuse max. 6.3 A tripping current, quick-response tripping characteristic and 1 500 A breaking capacity
• Number of operating cycles, max.	1 000 000; see additional description in the manual
Switching capacity of contacts	
— with inductive load, max.	2 A; see additional description in the manual
— with resistive load, max.	5 A; see additional description in the manual
— Thermal continuous current, max.	5 A; Max. 1 385 VA, 150 W
— Switching current, min.	10 mA; 5 V DC
— Rated switching voltage (DC)	24 V DC to 120 V DC
— Rated switching voltage (AC)	24V AC to 230V AC
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnoses	
• Monitoring the supply voltage	Yes
• Wire-break	No
• Short-circuit	No
Diagnostics indication LED	
• 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
Potential separation	
Potential separation channels	
• between the channels	Yes

- between the channels and backplane bus
- between the channels and the power supply of the electronics

Yes
Yes

Isolation

Isolation tested with	2 000 V DC (routine test)
tested with	
• between channels and backplane bus/supply voltage	2 000 V DC (routine test)
• between backplane bus and supply voltage	707 V DC (type test)

Standards, approvals, certificates

Suitable for safety functions	No
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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
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Dimensions

Width	20 mm
Height	73 mm
Depth	58 mm

Weights

Weight, approx.	40 g
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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	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[Miscellaneous](#)



[KC](#)

General Product Approval

For use in hazardous locations

Marine / Shipping



[FM](#)



Marine / Shipping

Environment



[NK / Nippon Kaiji Kyokai](#)



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



last modified:

12/8/2024 