



SIMATIC ET 200SP, relay module, RQ COni 3x120VDC..230VAC/5A ST, 3 CO contacts non-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 n.i. ST
Firmware version	V0.0
<ul style="list-style-type: none"> FW update possible 	No
usable BaseUnits	BU type U0
Color code for module-specific color identification plate	CC20
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> Isochronous mode 	No
Redundancy	
<ul style="list-style-type: none"> 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)	55 mA; without load
output voltage / header	
Rated value (AC)	230 V
Power loss	
Power loss, typ.	1.4 W
Address area	
Address space per module	
<ul style="list-style-type: none"> Inputs 	+ 1 byte for QI information
<ul style="list-style-type: none"> Outputs 	1 byte
Hardware configuration	
Automatic encoding	Yes
<ul style="list-style-type: none"> Mechanical coding element 	Yes
<ul style="list-style-type: none"> Type of mechanical coding element 	type C
Selection of BaseUnit for connection variants	
<ul style="list-style-type: none"> 2-wire connection 	BU type U0
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> with resistive load, max. with inductive load, max. 	<p>5 A; see additional description in the manual</p> <p>2 A; see additional description in the manual</p>
Parallel switching of two outputs	
<ul style="list-style-type: none"> for logic links for uprating for redundant control of a load 	<p>Yes</p> <p>No</p> <p>Yes</p>
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. with inductive load, max. on lamp load, max. 	<p>2 Hz</p> <p>0.5 Hz</p> <p>2 Hz</p>
Total current of the outputs	
<ul style="list-style-type: none"> Current per channel, max. Current per module, max. 	<p>5 A</p> <p>5 A</p>
Total current of the outputs (per module)	
horizontal installation	
<ul style="list-style-type: none"> up to 50 °C, max. up to 60 °C, max. 	<p>5 A</p> <p>5 A</p>
vertical installation	
<ul style="list-style-type: none"> up to 40 °C, max. up to 50 °C, max. 	<p>5 A</p> <p>5 A</p>
Relay outputs	
<ul style="list-style-type: none"> Number of relay outputs Rated supply voltage of relay coil L+ (DC) Current consumption of relays (coil current of all relays), max. external protection for relay outputs Number of operating cycles, max. 	<p>3; Changeover contact, non-floating</p> <p>24 V</p> <p>40 mA</p> <p>yes, with miniature fuse max. 6.3 A tripping current, quick-response tripping characteristic and 1 500 A breaking capacity</p> <p>1 000 000; see additional description in the manual</p>
Switching capacity of contacts	
<ul style="list-style-type: none"> with inductive load, max. with resistive load, max. Thermal continuous current, max. Switching current, min. Rated switching voltage (DC) Rated switching voltage (AC) 	<p>2 A; see additional description in the manual</p> <p>5 A; see additional description in the manual</p> <p>5 A; Max. 1 385 VA, 150 W</p> <p>10 mA; 5 V DC</p> <p>24 V DC to 120 V DC</p> <p>24V AC to 230V AC</p>
Cable length	
<ul style="list-style-type: none"> shielded, max. unshielded, max. 	<p>1 000 m</p> <p>200 m</p>
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
<ul style="list-style-type: none"> Diagnostic alarm 	Yes
Diagnoses	
<ul style="list-style-type: none"> Monitoring the supply voltage Wire-break Short-circuit 	<p>Yes</p> <p>No</p> <p>No</p>
Diagnostics indication LED	
<ul style="list-style-type: none"> Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics 	<p>Yes; green PWR LED</p> <p>Yes; green LED</p> <p>No</p> <p>Yes; green/red DIAG LED</p>
Potential separation	
Potential separation channels	
<ul style="list-style-type: none"> between the channels between the channels and backplane bus between the channels and the power supply of the electronics 	<p>No</p> <p>Yes</p> <p>Yes</p>
Isolation	
Isolation tested with	2 000 V DC (routine test)
tested with	
<ul style="list-style-type: none"> 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

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

Dimensions

Width 20 mm
 Height 73 mm
 Depth 58 mm

Weights

Weight, approx.

40 g

last modified:

12/28/2021 