



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
<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
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	STEP 7 V16 or higher
<ul style="list-style-type: none"> STEP 7 configurable/integrated from version 	Configurable via GSD file
<ul style="list-style-type: none"> PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
<ul style="list-style-type: none"> PROFINET from GSD version/GSD revision 	GSDML V2.34
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.	1.6 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. 	5 A; see additional description in the manual 2 A; see additional description in the manual
Parallel switching of two outputs	
<ul style="list-style-type: none"> for logic links for uprating for redundant control of a load 	Yes No Yes
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. with inductive load, max. on lamp load, max. 	2 Hz 0.5 Hz 2 Hz
Total current of the outputs	
<ul style="list-style-type: none"> Current per channel, max. Current per module, max. 	5 A 15 A
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. 	15 A 12 A; maximum channel current 4A
vertical installation	
<ul style="list-style-type: none"> up to 40 °C, max. up to 50 °C, max. 	15 A 12 A; maximum channel current 4A
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. 	3; changeover contact, isolated 24 V 30 mA yes, with miniature fuse max. 6.3 A tripping current, quick-response tripping characteristic and 1 500 A breaking capacity 1 000 000; see additional description in the manual
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) 	2 A; see additional description in the manual 5 A; see additional description in the manual 5 A; Max. 1 385 VA, 150 W 10 mA; 5 V DC 24 V DC to 120 V DC 24V AC to 230V AC
Cable length	
<ul style="list-style-type: none"> shielded, max. unshielded, max. 	1 000 m 200 m
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 	Yes No No
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 	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED

Potential separation	
Potential separation channels	
<ul style="list-style-type: none"> • between the channels 	Yes
<ul style="list-style-type: none"> • between the channels and backplane bus 	Yes
<ul style="list-style-type: none"> • between the channels and the power supply of the electronics 	Yes
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)
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • horizontal installation, min. 	-30 °C
<ul style="list-style-type: none"> • horizontal installation, max. 	60 °C
<ul style="list-style-type: none"> • vertical installation, min. 	-30 °C
<ul style="list-style-type: none"> • vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • 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 