



SIMATIC ET 200SP, Relay module, RQ NO 4x 120V DC ..230VAC/5A ST. 4 normally open contacts, isolated contacts, packing unit: 1 piece, fits to BU-type B0 and B1, Colour Code CC40, substitute value output, module diagnostics for: supply voltage

General information	
Product type designation	RQ 4x120 VDC ... 230 VAC/5 A NO ST
HW functional status	From FS02
Firmware version	V0.0
• FW update possible	No
usable BaseUnits	BU type B0, B1
Color code for module-specific color identification plate	CC40
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
• PCS 7 configurable/integrated from version	V8.1 SP1
• 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)	55 mA; without load
output voltage / header	
Rated value (AC)	230 V
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
• Inputs	+ 1 byte for QI information
• Outputs	1 byte
Hardware configuration	

Automatic encoding	Yes
<ul style="list-style-type: none"> • Mechanical coding element • Type of mechanical coding element 	Yes type C
Selection of BaseUnit for connection variants	
<ul style="list-style-type: none"> • 2-wire connection • 3-wire connection 	BU type B1 BU type B0
Digital outputs	
Type of digital output	Relays
Number of digital outputs	4
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
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 (acc. to IEC 60947-5-1, DC13), max. • with inductive load (acc. to IEC 60947-5-1, AC15), max. • on lamp load, max. 	2 Hz 0.5 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 20 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. 	20 A 16 A
vertical installation	
<ul style="list-style-type: none"> — up to 40 °C, max. — up to 50 °C, max. 	20 A 16 A
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. 	4 24 V 40 mA Yes, with miniature fuse max. 6 A tripping current and quick-response tripping characteristic 7 000 000; 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 100 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) 	Yes; green PWR LED

<ul style="list-style-type: none"> • Channel status display • for channel diagnostics • for module diagnostics 	<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>Yes</p> <p>Yes</p> <p>Yes</p>
Permissible potential difference	
between channels and backplane bus/supply voltage	240 V AC
Isolation	
Isolation tested with	2 500 V DC (type test)
tested with	
<ul style="list-style-type: none"> • between channels and backplane bus/supply voltage • between backplane bus and supply voltage 	<p>2 500 V DC</p> <p>707 V DC (type test)</p>
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. 	<p>-30 °C</p> <p>60 °C</p> <p>-30 °C</p> <p>50 °C</p>
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. 	2 000 m; On request: Installation altitudes greater than 2 000 m
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	40 g

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