

Siemens
EcoTech



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
• FW update possible	No
usable BaseUnits	BU type U0
Color code for module-specific color-coded label	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	TIA V19 or higher with HSP0463 / integrated as of TIA V20
• PROFIBUS from GSD version/GSD revision	One GSD file each, Revision 3 and 5 and higher
• PROFINET from GSD version/GSD revision	GSDML V2.45
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	
Rated value (AC)	230 V
Power loss	
Power loss, typ.	1.4 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.	5 A
Total current of the outputs (per module)	
horizontal installation	
— up to 50 °C, max.	5 A
— up to 60 °C, max.	5 A
vertical installation	
— up to 40 °C, max.	5 A
— up to 50 °C, max.	5 A
Relay outputs	
• Number of relay outputs	3; Changeover contact, non-floating
• Rated supply voltage of relay coil L+ (DC)	24 V
• Current consumption of relays (coil current of all relays), max.	40 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 • for module diagnostics	No																																													
	Yes; green/red DIAG LED																																													
Potential separation																																														
Potential separation channels																																														
• between the channels	No																																													
• between the channels and backplane bus	Yes																																													
• between the channels and the power supply of the electronics	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																																													
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																																													
Absolute humidity																																														
• dew point, min.	-60 °C; suitable for dry room applications																																													
Dimensions																																														
Width	20 mm																																													
Height	73 mm																																													
Depth	58 mm																																													
Weights																																														
Weight, approx.	40 g																																													
Classifications																																														
	<table><tr><td></td><td>Version</td><td>Classification</td></tr><tr><td>eClass</td><td>16</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>14</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>12</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>9.1</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>9</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>8</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>7.1</td><td>27-24-26-04</td></tr><tr><td>eClass</td><td>6</td><td>27-24-26-04</td></tr><tr><td>ETIM</td><td>10</td><td>EC001599</td></tr><tr><td>ETIM</td><td>9</td><td>EC001599</td></tr><tr><td>ETIM</td><td>8</td><td>EC001599</td></tr><tr><td>ETIM</td><td>7</td><td>EC001599</td></tr><tr><td>IDEA</td><td>4</td><td>3566</td></tr><tr><td>UNSPSC</td><td>15</td><td>32-15-17-05</td></tr></table>		Version	Classification	eClass	16	27-24-26-04	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
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Approvals / Certificates

General Product Approval



General Product Approval

For use in hazardous locations



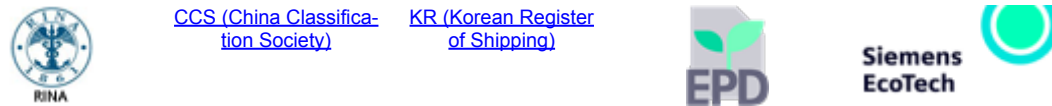
For use in hazardous locations

Maritime application



Maritime application

Environment



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