

Siemens  
EcoTech



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"> <li>FW update possible</li> </ul>	No
usable BaseUnits	BU type U0
Color code for module-specific color-coded label	CC20
Product function	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> <li>Isochronous mode</li> </ul>	No
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	STEP 7 V16 or higher
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>	Configurable via GSD file
<ul style="list-style-type: none"> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher
<ul style="list-style-type: none"> <li>PROFINET from GSD version/GSD revision</li> </ul>	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	
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"> <li>Inputs</li> </ul>	+ 1 byte for QI information
<ul style="list-style-type: none"> <li>Outputs</li> </ul>	1 byte
Hardware configuration	
Automatic encoding	Yes
<ul style="list-style-type: none"> <li>Mechanical coding element</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Type of mechanical coding element</li> </ul>	type C
Selection of BaseUnit for connection variants	
<ul style="list-style-type: none"> <li>2-wire connection</li> </ul>	BU type U0

• 3-wire connection	BU type U0
<b>Digital outputs</b>	
Type of digital output	Relays
Number of digital outputs	3
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
<b>Switching capacity of the outputs</b>	
• 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
<b>Parallel switching of two outputs</b>	
• for logic links	Yes
• for uprating	No
• for redundant control of a load	Yes
<b>Switching frequency</b>	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	2 Hz
<b>Total current of the outputs</b>	
• Current per channel, max.	5 A
• Current per module, max.	15 A
<b>Total current of the outputs (per module)</b>	
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
<b>Relay outputs</b>	
• 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
<b>Switching capacity of contacts</b>	
— 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
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	200 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes
Substitute values connectable	Yes
<b>Alarms</b>	
• Diagnostic alarm	Yes
<b>Diagnoses</b>	
• Monitoring the supply voltage	Yes
• Wire break	No
• Short-circuit	No
<b>Diagnostics indication LED</b>	
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED

<ul style="list-style-type: none"> <li>• Channel status display</li> <li>• for channel diagnostics</li> <li>• for module diagnostics</li> </ul>	<p>Yes; green LED</p> <p>No</p> <p>Yes; green/red DIAG LED</p>	
<b>Potential separation</b>		
Potential separation channels		
<ul style="list-style-type: none"> <li>• between the channels</li> <li>• between the channels and backplane bus</li> <li>• between the channels and the power supply of the electronics</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p>	
<b>Isolation</b>		
Isolation tested with		
	2 000 V DC (routine test)	
tested with		
<ul style="list-style-type: none"> <li>• between channels and backplane bus/supply voltage</li> <li>• between backplane bus and supply voltage</li> </ul>	<p>2 000 V DC (routine test)</p> <p>707 V DC (type test)</p>	
<b>Standards, approvals, certificates</b>		
Suitable for safety functions		
	No	
Ecological footprint		
<ul style="list-style-type: none"> <li>• environmental product declaration</li> </ul>	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	
<b>Ambient conditions</b>		
Ambient temperature during operation		
<ul style="list-style-type: none"> <li>• horizontal installation, min.</li> <li>• horizontal installation, max.</li> <li>• vertical installation, min.</li> <li>• vertical installation, max.</li> </ul>	<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"> <li>• Installation altitude above sea level, max.</li> </ul>	2 000 m	
Absolute humidity		
<ul style="list-style-type: none"> <li>• dew point, min.</li> </ul>	-60 °C; suitable for dry room applications	
<b>Dimensions</b>		
Width	20 mm	
Height	73 mm	
Depth	58 mm	
<b>Weights</b>		
Weight, approx.	40 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
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

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[Miscellaneous](#)



General Product Approval

For use in hazardous locations

Maritime application



[EM](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

[KR \(Korean Register of Shipping\)](#)

Environment



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