

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
• 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	STEP 7 V16 or higher
• STEP 7 configurable/integrated from version	Configurable via GSD file
• PROFIBUS from GSD version/GSD revision	One GSD file each, Revision 3 and 5 and higher
• PROFINET from GSD version/GSD revision	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	
• 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.	15 A
Total current of the outputs (per module)	
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
Relay outputs	
• 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
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 • for channel diagnostics • for module diagnostics	Yes; green LED No Yes; green/red DIAG LED		
Potential separation			
Potential separation channels			
• between the channels	Yes		
• 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			
		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

Approvals / Certificates

General Product Approval


[Manufacturer Declaration](#)
[Miscellaneous](#)


General Product Approval

For use in hazardous locations


[China RoHS](#)


For use in hazardous locations

Maritime application

[EM](#)

[NK / Nippon Kaiji Kyokai](#)

Maritime application

Environment


[CCS \(China Classification Society\)](#)
[KR \(Korean Register of Shipping\)](#)


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