



SIMATIC ET 200SP, relay module normally open, RQ NO-MA4x120VDC..230VAC/5A ST, with manual operation, packing unit VPE 1, suitable for BU type B0 or B1, Module diagnostics

General information

Product type designation	RQ 4x120 V DC ... 230 V AC/5 A NO MA ST
HW functional status	From FS03
Firmware version	
• FW update possible	Yes
usable BaseUnits	BU type B0, B1
Color code for module-specific color-coded label	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	V13 SP1
• STEP 7 configurable/integrated from version	V5.5 SP3 / -
• 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

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, max.	100 mA; without load
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Power loss

Power loss, typ.	1.5 W
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Address area

Address space per module	
• Inputs	1 byte; + 1 byte for QI information
• Outputs	1 byte

Hardware configuration

Automatic encoding	Yes
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• Mechanical coding element	Yes
• Type of mechanical coding element	type C
Selection of BaseUnit for connection variants	
• 2-wire connection	BU type B1
• 3-wire connection	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
Switching frequency	
• with resistive load, max.	2 Hz
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz; provide one freewheeling diode for switching frequencies higher than 0.1 Hz
• with inductive load (acc. to IEC 60947-5-1, AC15), 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.	20 A
Total current of the outputs (per module)	
horizontal installation	
— up to 50 °C, max.	20 A
— up to 60 °C, max.	16 A
vertical installation	
— up to 40 °C, max.	20 A
— up to 50 °C, max.	16 A
Relay outputs	
• Number of relay outputs	4
• 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 A tripping current and quick-response tripping characteristic
• Number of operating cycles, max.	7 000 000; 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
— Switching current, min.	100 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
• Group error	Yes
Diagnostics indication LED	
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
• Channel status display	Yes; green LED
• for channel diagnostics	No

• for module diagnostics	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					
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						
• between channels and backplane bus/supply voltage	2 500 V DC					
• 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) [CO ₂ eq]	25.5 kg					
— global warming potential, (during production) [CO ₂ eq]	3.54 kg					
— global warming potential, (during operation) [CO ₂ eq]	22.1 kg					
— global warming potential, (after end of life cycle) [CO ₂ 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; On request: Installation altitudes greater than 2 000 m					
Dimensions						
Width	20 mm					
Height	73 mm					
Depth	58 mm					
Weights						
Weight, approx.	45 g					
Classifications						
		Version	Classification			
	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		Test Certificates	Maritime application			



EG-Konf.



[Type Test Certific-
ates/Test Report](#)



Maritime application

other

Environment



LRS



[Confirmation](#)



Environment



[Environmental Con-
firmations](#)

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