



SIMATIC ET 200SP HA, Signal relay module changeover contact, RQ 4x120VDC-230VAC/5A CO HA suitable for terminal block K0, color code CC40, module diagnostics



General information	
Product type designation	RQ 4x120VDC-230VAC/5A CO HA
Firmware version	V1.0
<ul style="list-style-type: none"> FW update possible 	Yes
Usable terminal block	type K0 (see system manual for details)
Color code for module-specific color-coded label	CC40
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	V16
<ul style="list-style-type: none"> STEP 7 configurable/integrated from version 	V5.6
<ul style="list-style-type: none"> PCS 7 configurable/integrated from version 	V9.0
<ul style="list-style-type: none"> PCS neo can be configured/integrated from version 	V3.0
<ul style="list-style-type: none"> PROFINET from GSD version/GSD revision 	GSDML V2.3
Redundancy	
<ul style="list-style-type: none"> Redundancy capability 	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 (rated value)	50 mA; At 24 V and energized changeover coils
Current consumption, max.	60 mA; At 19.2 V and energized changeover coils
Power loss	
Power loss, typ.	2.8 W; At 24 V, energized changeover coils and 5 A current across each changeover contact
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	1 byte; + 1 byte for QI information
Digital outputs	
Number of digital outputs	4
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. 	2 Hz
<ul style="list-style-type: none"> with inductive load, max. 	0.5 Hz
<ul style="list-style-type: none"> on lamp load, max. 	2 Hz

Relay outputs			
• Number of relay outputs	4		
• external protection for relay outputs	yes; 6 A, see data in manual		
Switching capacity of contacts			
— with inductive load, max.	2 A; 2 A (24 V DC), 0.5 A (60 V DC), 0.1 A (120 V DC)		
— with resistive load, max.	5 A; 5 A (30 V DC), 5 A (230 V AC)		
— Switching current, min.	8 mA		
— Rated switching voltage (DC)	24 V; 24 V DC to 120 V DC		
— Rated switching voltage (AC)	230 V; 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		
— parameterizable	Yes		
Diagnostics indication LED			
• MAINT LED	Yes; Yellow LED		
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED		
• Channel status display	Yes; green LED		
• 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 load voltage L+	Yes		
Permissible potential difference			
between different circuits	Between channels: 230 V AC (different system phase)		
between channels and backplane bus/supply voltage	230 V AC		
Isolation			
tested with			
• between channels and backplane bus/supply voltage	4 200 V DC/1 min, type test		
• between backplane bus and supply voltage	1 500 V DC/1 min, type test		
• Between channels	1 500 V AC/1 min, type test		
Ambient conditions			
Ambient temperature during operation			
• horizontal installation, min.	-40 °C; No icing		
• horizontal installation, max.	70 °C		
• vertical installation, min.	-40 °C; No icing		
• vertical installation, max.	60 °C		
Altitude during operation relating to sea level			
• Ambient air temperature-barometric pressure-altitude	3 000 m due to converter type used		
Dimensions			
Width	22.5 mm		
Height	115 mm		
Depth	138 mm		
Weights			
Weight, approx.	162 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

Approvals / Certificates

General Product Approval



[Miscellaneous](#)



General Product Approval



[China RoHS](#)



[Manufacturer Declaration](#)

[Miscellaneous](#)



For use in hazardous locations

Maritime application

[Declaration of Conformity](#)



Maritime application

Environment

[NK / Nippon Kaiji Kyokai](#)



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



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