



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 4x120 V UC ... 230 V AC/5 A CO HA
Firmware version	V1.0
• FW update possible	Yes
Usable terminal block	TB type K0
Color code for module-specific color identification plate	CC40
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V16
• STEP 7 configurable/integrated from version	V5.6
• PCS 7 configurable/integrated from version	V9.0
• PCS neo can be configured/integrated from version	V3.0
• PROFINET from GSD version/GSD revision	GSDML V2.3
Redundancy	
• 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	
• Address space per module, max.	1 byte; + 1 byte for QI information
Digital outputs	
Number of digital outputs	4
Switching frequency	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• 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
<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
— parameterizable	Yes
<b>Diagnostics indication LED</b>	
• 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
<b>Potential separation</b>	
<b>Potential separation channels</b>	
• between the channels	Yes
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
<b>Permissible potential difference</b>	
between different circuits	Between channels: 230 V AC (different system phase)
between channels and backplane bus/supply voltage	230 V AC
<b>Isolation</b>	
<b>tested with</b>	
• 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
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• horizontal installation, min.	-40 °C; No icing
• horizontal installation, max.	70 °C
• vertical installation, min.	-40 °C; No icing
• vertical installation, max.	60 °C
<b>Altitude during operation relating to sea level</b>	
• Ambient air temperature-barometric pressure-altitude	3 000 m due to converter type used
<b>Dimensions</b>	
Width	22.5 mm
Height	115 mm
Depth	138 mm
<b>Weights</b>	
Weight, approx.	162 g

**last modified:** 1/17/2021 