6ES7132-6GD51-0BA0

## **Data sheet**



SIMATIC ET 200SP, Signal relay module, RQ CO 4x 24V DC/2A ST, 4 changeover contacts, isolated contacts, packing unit: 1 piece, fits to BU-type A0, Colour Code CC00, substitute value output, module diagnostics for: supply voltage

Product type designation  RQ CO 4x24VDC/2A ST  HW functional status  From FS02  Firmware version  FW update possible  usable BaseUnits  RQ CO 4x24VDC/2A ST  From FS02  V0.0  BU type A0		
Firmware version V0.0  ◆ FW update possible No		
FW update possible     No		
·		
usable BaseUnits BU type A0		
50 170110		
Color code for module-specific color identification plate CC00		
Product function		
• I&M data Yes; I&M0 to I&M3		
• Isochronous mode No		
Engineering with		
STEP 7 TIA Portal configurable/integrated from version  V14		
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		
Redundancy		
Redundancy capability     Yes		
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		
Power loss		
Power loss, typ. 1.2 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
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
Parallel switching of two outputs	
<ul> <li>for logic links</li> </ul>	Yes
<ul><li>for uprating</li></ul>	No
for redundant control of a load	Yes
Switching frequency	
with resistive load, max.	2 Hz
Total current of the outputs	
<ul> <li>Current per channel, max.</li> </ul>	2 A
Current per module, max.	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 40 °C, max.	8 A
— up to 50 °C, max.	6 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 30 °C, max.	8 A
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
Relay outputs	4
Number of relay outputs     Pated supply voltage of relay coil L+ (DC)	4 24 V
Rated supply voltage of relay coil L+ (DC)     Current consumption of relays (coil current of all	
<ul> <li>Current consumption of relays (coil current of all relays), max.</li> </ul>	40 mA
Number of operating cycles, max.	500 000
Switching capacity of contacts	
— with resistive load, max.	2 A
<ul> <li>Thermal continuous current, max.</li> </ul>	2 A
<ul> <li>Switching current, min.</li> </ul>	1 mA; 5 V DC
<ul> <li>Rated switching voltage (DC)</li> </ul>	24 V
Rated switching voltage (AC)	24 V
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	
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green PWR LED
<ul> <li>Channel status display</li> </ul>	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	No
<ul> <li>for module diagnostics</li> </ul>	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
• between the channels	Yes
<ul> <li>between the channels and backplane bus</li> </ul>	Yes

<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C
vertical installation, max.	50 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m; On request: Installation altitudes greater than 2 000 m
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g

last modified:

12/28/2021