SIEMENS

Data sheet

6ES7132-6GD51-0BA0



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 C0 4x24/VDC/2A ST HW functional status From FS02 Firmware version V0.0 • FW update possible No usable BaseUnits BU type A0 Color code for module-specific color identification plate C00 Product function CC00 • ISM data Yes; I&M0 to I&M3 • Isochronous mode No • STEP 7 TIA Portal configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • ROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher • DQ with energy-saving function No • DQ with energy-saving function No • DQ Yes • DQ No • DQ with energy-saving function No • DQ Yes Supply voltage <th>General information</th> <th></th>	General information	
Firmware version V0.0 • FW update possible No usable BaseUnits BU type A0 Color code for module-specific color identification plate CC00 Product function • (BM data • (SAchronous mode CO0 Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 configurable/integrated from version V14 • STEP 7 configurable/integrated from version V5.5 SP3 • PROFIBUS from GSD version/GSD revision GSDML V2.3 Operating mode • • DQ Yes • DQ with energy-saving function No • PROFINET from GSD Version/GSD revision SDML V2.3 Operating mode • • DQ with energy-saving function No • DQ with energy-saving function No • WMM No • Oversampling No • MSO No Poersampling No • Redundancy capability Yes Supply voltage Pacel value (DC) permissible range, upper limit (DC) 24 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption (rated value) Power loss P	Product type designation	RQ CO 4x24VDC/2A ST
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usable BaseUnits BU type A0 Color code for module-specific color identification plate CC00 Product function CC00 • i&M data Yes; I&M0 to I&M3 • isochronous mode No Engineering with V14 • STEP 7 TIA Portal configurable/integrated from version V5.5 SP3 • PROFINET 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 No • Redundancy Yes • Redundancy capability Yes • Redundancy capability Yes Permissible range, upper limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection <	Firmware version	V0.0
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 Yes • DQ Yes • DQ Yes • DQ with energy-saving function No • Oversampling No • MSO No Redundancy • • Redundancy capability Yes Supply voltage • Rated value (DC) 24 V permissible range, lower limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption (rated value) 50 mA Power loss • Power loss • </td <td> FW update possible </td> <td>No</td>	 FW update possible 	No
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• 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 Yes • DQ with energy-saving function No • PWM No • Oversampling No • MSO No • Redundancy capability Yes • Reverse polarity protection Yes Input current Yes Current consumption (rated value) 50 mA Power loss Input current Power loss 1.2 W Address space per module - • Inputs + 1 byte for Ql information	Color code for module-specific color identification plate	CC00
• 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 One GSD file each, Revision 3 and 5 and higher • PROFINET from GSD version/GSD revision GBUL V2.3 Operating mode • • DQ Yes • DQ Yes • DQ Yes • DQ Yes • DQ No • DQ No • Oversampling No • MSO No • Redundancy • • Redundancy Yes • Redundancy capability Yes Supply voltage 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) Cower loss • Power loss, typ. 1.2 W Address space p	Product function	
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Reverse polarity protection Yes Input current Input current Current consumption (rated value) 50 mA Power loss 50 mA Power loss, typ. 1.2 W Address area 1.2 W Address space per module + 1 byte for QI information	permissible range, lower limit (DC)	19.2 V
Input current Current consumption (rated value) 50 mA Power loss Power loss, typ. 1.2 W Address area Address space per module + 1 byte for QI information	permissible range, upper limit (DC)	28.8 V
Current consumption (rated value) 50 mA Power loss 1.2 W Address area 1.2 W Address space per module + 1 byte for QI information		Yes
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Power loss, typ. 1.2 W Address area Address space per module • Inputs + 1 byte for QI information	Current consumption (rated value)	50 mA
Address area Address space per module • Inputs + 1 byte for QI information	Power loss	
Address space per module • Inputs + 1 byte for QI information	Power loss, typ.	1.2 W
Inputs + 1 byte for QI information	Address area	
	Address space per module	
Outputs 1 byte	Inputs	+ 1 byte for QI information
	Outputs	1 byte

Hardware configuration	
Automatic encoding	Yes
Mechanical coding element	Yes
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	
for logic links	Yes
for uprating	No
 for redundant control of a load 	Yes
Switching frequency	100
with resistive load, max.	2 Hz
Total current of the outputs	2112
Current per channel, max.	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	
Number of relay outputs	4
 Rated supply voltage of relay coil L+ (DC) 	24 V
Current consumption of relays (coil current of all	40 mA
relays), max.	
Switching capacity of contacts	
— with resistive load, max.	2 A
— Thermal continuous current, max.	2 A
— Switching current, min.	1 mA; 5 V DC
— Rated switching voltage (DC)	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	
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
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
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	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g

last modified:

2/1/2021 🖸