## **SIEMENS**

## **Data sheet**

## 6ES7132-6HD01-0BB1



SIMATIC ET 200SP, Relay module, RQ NO 4x 120V DC..230VAC/5A ST. 4 normally open contacts, isolated contacts, packing unit: 1 piece, fits to BU-type B0 and B1, Colour Code CC40, substitute value output, module diagnostics for: supply voltage

General information		
Product type designation	RQ 4x120 VDC 230 VAC/5 A NO ST	
HW functional status	From FS02	
Firmware version	V0.0	
FW update possible	No	
usable BaseUnits	BU type B0, B1	
Color code for module-specific color identification plate	CC40	
Product function		
● I&M data	Yes; I&M0 to I&M3	
<ul> <li>Isochronous mode</li> </ul>	No	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V14	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3	
<ul> <li>PCS 7 configurable/integrated from version</li> </ul>	V8.1 SP1	
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher	
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.3	
Operating mode		
• DQ	Yes	
<ul> <li>DQ with energy-saving function</li> </ul>	No	
• PWM	No	
Oversampling	No	
• MSO	No	
Redundancy		
<ul> <li>Redundancy capability</li> </ul>	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)	55 mA; without load	
output voltage / header		
Rated value (AC)	230 V	
Power loss		
Power loss, typ.	1.5 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
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
Parallel switching of two outputs	
• for logic links	Yes
• for uprating	No
for redundant control of a load	Yes
Switching frequency	
with resistive load, max.	2 Hz
with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, AC15), max.</li> </ul>	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
<ul> <li>Current consumption of relays (coil current of all relays), max.</li> </ul>	40 mA
external protection for relay outputs	Yes, with miniature fuse max. 6 A tripping current and quick-response tripping characteristic
<ul> <li>Number of operating cycles, max.</li> </ul>	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
<ul> <li>Thermal continuous current, max.</li> </ul>	5 A; Max. 1 385 VA, 150 W
<ul><li>— Switching current, min.</li></ul>	100 mA; 5 V DC
<ul> <li>Rated switching voltage (DC)</li> </ul>	24 V DC to 120 V DC
<ul> <li>Rated switching voltage (AC)</li> </ul>	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
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	
<ul> <li>between the channels</li> </ul>	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
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	
<ul> <li>between channels and backplane bus/supply voltage</li> </ul>	2 500 V DC
<ul> <li>between backplane bus and supply voltage</li> </ul>	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	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	40 g

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