## **SIEMENS**

## **Data sheet**

## 6ES7132-6MD00-0BB1



SIMATIC ET 200SP, relay module normally open, RQ NO-MA4x120VDC..230VAC/5A ST, with manual operation, packing unit VPE 1, suitable for BU type B0 or B1, Module diagnostics

General information		
Product type designation	RQ 4x120 V DC 230 V AC/5 A NO MA ST	
HW functional status	From FS03	
Firmware version		
<ul> <li>FW update possible</li> </ul>	Yes	
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	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V13 SP1	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -	
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher	
PROFINET from GSD version/GSD revision	GSDML V2.3	
Operating mode		
• DQ	Yes	
<ul> <li>DQ with energy-saving function</li> </ul>	No	
• PWM	No	
<ul> <li>Oversampling</li> </ul>	No	
• MSO	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, max.	100 mA; without load	
Power loss		
Power loss, typ.	1.5 W	
Address area		
Address space per module		
• Inputs	1 byte; + 1 byte for QI information	
Outputs	1 byte	
Hardware configuration		
Automatic encoding	Yes	
<ul> <li>Mechanical coding element</li> </ul>	Yes	
Type of mechanical coding element	type C	
Selection of BaseUnit for connection variants		
2-wire connection	BU type B1	
<ul> <li>3-wire connection</li> </ul>	BU type B0	

Digital outputs	
Type of digital output	Relays
Number of digital outputs	4
Short-circuit protection	No
Switching frequency	
with resistive load, max.	2 Hz
with inductive load, max.	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	
<ul> <li>Number of relay outputs</li> </ul>	4
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>	24 V
<ul> <li>Current consumption of relays (coil current of all relays), max.</li> </ul>	40 mA
<ul> <li>external protection for relay outputs</li> </ul>	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	
<ul><li>— with inductive load, max.</li></ul>	2 A; see additional description in the manual
<ul><li>— with resistive load, max.</li></ul>	5 A; see additional description in the manual
<ul> <li>Thermal continuous current, max.</li> </ul>	5 A
<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
— Rated switching voltage (AC)	24V AC to 230V AC
Cable length	4.000
• shielded, max.	1 000 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic alarm     Diagnoses	
Diagnostic alarm     Diagnoses     Monitoring the supply voltage	Yes
<ul> <li>Diagnostic alarm</li> <li>Diagnoses</li> <li>Monitoring the supply voltage</li> <li>Wire-break</li> </ul>	Yes No
<ul> <li>Diagnostic alarm</li> <li>Diagnoses</li> <li>Monitoring the supply voltage</li> <li>Wire-break</li> <li>Short-circuit</li> </ul>	Yes No No
<ul> <li>Diagnostic alarm</li> <li>Diagnoses</li> <li>Monitoring the supply voltage</li> <li>Wire-break</li> <li>Short-circuit</li> <li>Group error</li> </ul>	Yes No
<ul> <li>Diagnostic alarm</li> <li>Diagnoses</li> <li>Monitoring the supply voltage</li> <li>Wire-break</li> <li>Short-circuit</li> <li>Group error</li> <li>Diagnostics indication LED</li> </ul>	Yes No No Yes
Diagnostic alarm     Diagnoses	Yes No No Yes Yes; green PWR LED
Diagnostic alarm     Diagnoses	Yes No No Yes  Yes; green PWR LED Yes; green LED
Diagnostic alarm  Diagnoses     Monitoring the supply voltage     Wire-break     Short-circuit     Group error  Diagnostics indication LED     Monitoring of the supply voltage (PWR-LED)     Channel status display     for channel diagnostics	Yes No No Yes  Yes; green PWR LED Yes; green LED No
Diagnostic alarm Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics	Yes No No Yes  Yes; green PWR LED Yes; green LED
Diagnostic alarm Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Potential separation	Yes No No Yes  Yes; green PWR LED Yes; green LED No
Diagnostic alarm  Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error  Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics  Potential separation  Potential separation channels	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
Diagnostic alarm  Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error  Diagnostics indication LED  Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics  for module diagnostics  Potential separation  Potential separation channels  between the channels	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
Diagnostic alarm  Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error  Diagnostics indication LED  Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics  Potential separation  Potential separation channels between the channels and backplane bus	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED  Yes Yes
Diagnostic alarm Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED  Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics  Potential separation  Potential separation channels between the channels and backplane bus between the channels and the power supply of the electronics	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED
Diagnostic alarm Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED  Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics  Potential separation  Potential separation  Potential separation channels between the channels and backplane bus between the channels and the power supply of the	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED  Yes Yes
Diagnostic alarm  Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error  Diagnostics indication LED  Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics  between the channels between the channels between the channels and backplane bus between the channels and the power supply of the electronics  Permissible potential difference between channels and backplane bus/supply voltage	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED  Yes Yes
Diagnostic alarm  Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error  Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics  between the channels between the channels between the channels and backplane bus between the channels and the power supply of the electronics  Permissible potential difference	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED  Yes Yes Yes Yes
Diagnostic alarm  Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error  Diagnostics indication LED  Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics  between the channels between the channels between the channels and backplane bus between the channels and the power supply of the electronics  Permissible potential difference between channels and backplane bus/supply voltage	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED  Yes Yes Yes Yes
Diagnostic alarm Diagnoses  Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED  Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics  Potential separation  Potential separation  Potential separation channels between the channels and backplane bus between the channels and the power supply of the electronics  Permissible potential difference between channels and backplane bus/supply voltage Isolation	Yes No No Yes  Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED  Yes Yes Yes Yes

voltage	
<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
<ul> <li>vertical installation, max.</li> </ul>	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.	45 g
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