## **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	
FW update possible	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	
<ul><li>Inputs</li></ul>	1 byte; + 1 byte for QI information
<ul> <li>Outputs</li> </ul>	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
3-wire connection	BU type B0
Digital outputs	
Type of digital output	Relays
Number of digital outputs	4
Short-circuit protection	No
Switching frequency	
<ul> <li>with resistive load, max.</li> </ul>	2 Hz
<ul> <li>with inductive load, 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	00.4
— up to 40 °C, max.	20 A
— up to 50 °C, max.	16 A
Relay outputs	4
Number of relay outputs     Detail output valence of relay soil L + (DC)	4
Rated supply voltage of relay coil L+ (DC)      Current consumption of relays (coil surrent of all	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
<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	
<ul><li>shielded, max.</li></ul>	1 000 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
<ul> <li>Monitoring the supply voltage</li> </ul>	Yes
<ul><li>Wire-break</li></ul>	No
Short-circuit	No
Group error	Yes
Diagnostics indication LED	
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	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	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
between the channels and the power supply of the     cleatronics	Yes
electronics	
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.	45 g

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last modified: