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	
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1
 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
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
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

Type of digital output	Relays
Number of digital outputs	4
Short-circuit protection	No No
Switching frequency	NO
with resistive load, max.	2 Hz
,	
 with inductive load (acc. to IEC 60947-5-1, DC13), max. 	0.5 Hz; provide one freewheeling diode for switching frequencies higher than 0.1 Hz
 with inductive load (acc. to IEC 60947-5-1, AC15), 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	
 Number of relay outputs 	4
 Rated supply voltage of relay coil L+ (DC) 	24 V
 Current consumption of relays (coil current of all relays), max. 	40 mA
external protection for relay outputs	Yes, with miniature fuse max. 6 A tripping current and quick-response tripping characteristic
 Number of operating cycles, max. 	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
— Thermal continuous current, max.	5 A
— Switching current, min.	100 mA; 5 V DC
Rated switching voltage (DC)	24 V DC to 120 V DC
Rated switching voltage (AC)	24V AC to 230V AC
Cable length	
shielded, max.	1 000 m
• unshielded, max.	200 m
sterrupts/diagnostics/status information	200 111
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	165
Diagnostic alarm	Yes
	100
Diagnoses Monitoring the supply voltage	Vec
Monitoring the supply voltage Wire break	Yes
Wire-break Short circuit	No
Short-circuit Croup orror	No
Group error Diagnostics indication LED.	Yes
Diagnostics indication LED	Version DMD 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
otential 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
ermissible potential difference	

Isolation tested with	2 500 V DC (type test)	
tested with		
 between channels and backplane bus/supply voltage 	2 500 V DC	
 between backplane bus and supply voltage 	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	20 mm	
Height	73 mm	
Depth	58 mm	
Weights		
Weight, approx.	45 g	

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