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	

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 (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),	40 mA
max.	
 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
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wine-break	No
Short-circuit	No
Group error	Yes
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 	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	
 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

last modified:

12/8/2024 🖸