

SIMATIC DP, ELECTRON. MODULE F. ET 200SP, F-DQ 4XDC
24V/2A, 15 MM WIDTH, UP TO PL E (ISO 13849) UP TO SIL 3 (IEC
61508)



Product type designation	
General information	
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated as of version	V12
• STEP 7 configurable/integrated as of version	V5.5 SP3 / -
• PROFINET as of GSD version/GSD revision	V2.31
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption (rated value)	75 mA; without load
Current consumption, max.	21 mA; From the backplane bus

Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	70 mW
Power loss	
Power loss, typ.	4 W
Address area	
Address space per module	
• Input	5 byte
• Output	5 byte
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes
• Response threshold, typ.	> 3.3 A
Open-circuit detection	Yes
• Response threshold, typ.	8 mA
Overload protection	Yes
• Response threshold, typ.	2.9 A
Limitation of inductive shutdown voltage to	typ. 2*47V
Switching capacity of the outputs	
• with resistive load, max.	2 A
• on lamp load, max.	10 W
Load resistance range	
• lower limit	12 Ω
• upper limit	2 000 Ω
Output voltage	
• for signal "1", min.	24 V; L+ (-0.5 V)
Output current	
• for signal "1" rated value	2 A
• for signal "0" residual current, max.	0.5 mA
Switching frequency	
• with resistive load, max.	30 Hz; Symmetrical
• with inductive load, max.	0.1 Hz; according to IEC 947-5-1, DC-13, symmetrical
• on lamp load, max.	10 Hz; Symmetrical
Total current of the outputs	
• Current per channel, max.	2 A; Note derating data in the manual
• Current per module, max.	6 A; Note derating data in the manual
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	500 m

Interrupts/diagnostics/status information

Substitute values connectable No

Alarms

• Diagnostic alarm Yes

Diagnostic messages

• Diagnostics Yes, "Alarms/diagnostic messages" section in the manual

Diagnostics indication LED

• RUN LED Yes; Green LED
• ERROR LED Yes; Red LED
• Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED
• Channel status display Yes; Green LED
• for channel diagnostics Yes; Red LED
• for module diagnostics Yes; green/red DIAG LED

Potential separation

Potential separation channels

• between the channels No
• between the channels and backplane bus Yes
• between the channels and the power supply of the electronics No

Permissible potential difference

between different circuits 75V DC/60V AC

Isolation

Isolation tested with 707 V DC (type test)

Ambient conditions

Ambient temperature during operation

• horizontal installation, min. 0 °C
• horizontal installation, max. 60 °C
• vertical installation, min. 0 °C
• vertical installation, max. 50 °C

Dimensions

Width 15 mm

Weights

Weight, approx. 57 g

last modified: 20.08.2015