SIEMENS

Data sheet

6ES7136-6DC00-0CA0



SIMATIC DP, electronic module ET 200SP, F-DQ 8x24VDC/0.5A PP HF, 15 mm width, up to PL E (ISO 13849) up to SIL 3 (IEC 61508)

General information	
Product type designation	F-DQ 8x24 V DC/0.5 A PP HF
Firmware version	
 FW update possible 	Yes
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC02
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	V14 SP1 with HSP 202
 STEP 7 configurable/integrated from version 	V5.5 SP4 HF5
 PROFINET from GSD version/GSD revision 	V2.31
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
power supply according to NEC Class 2 required	No
Input current	
Current consumption (rated value)	75 mA; without load
Current consumption, max.	21 mA; From the backplane bus
output voltage / header	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	70 mW
Power loss	
Power loss, typ.	3 W
Address area	
Address space per module	
Inputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA
Outputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA
Hardware configuration	
Automatic encoding	Yes
Electronic coding element type F	Yes
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	8
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
Response threshold, typ.	Min. 0.7 A

Limitation of inductive shutdown voltage to Typ39 V Controlling a digital input Yes; digital output, according to IEC 61131-2, type 0.5 Switching capacity of the outputs 0.5 A • on Iamp load, max. 0.5 A = on Iamp load, max. 2 W Load resistance range 12 000 Ω Output voltage 24 V; L+ (0.5 V) Output voltage 0.5 A = ori signal *1" rated value 0.5 A, note derating data in the manual = ori signal *1" rated value 0.5 A, note derating data in the manual = ori apto fo *0, max. 3 A	On an airsuit dataatian	Na
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• RUN LEDYes; green LED• ERROR LEDYes; red LED• Monitoring of the supply voltage (PWR-LED)Yes; green PWR LED• Channel status displayYes; green LED• for channel diagnosticsYes; red LED• for module diagnosticsYes; green/ted DIAG LED• for module diagnosticsYes; green/ted DIAG LED• otential separationYes• between the channelsNo• between the channels and backplane busYes• between the channels and the power supply of the electronicsNo• between the channels and the power supply of the electronics to the safety functionsYof Y DC (type test)tandards, approvals, certificatesYof Y DC (type test)Suitable for safety functionsYesHighest safety class achievable in safety modeYes• Performance level according to ISO 13849-1PLe• Category according to ISO 13849-1PLe• Sil acc. to IEC 61508Sil 3• Brobability of failure (for service life of 20 years and repair time / TO0 hours)• Low demand mode: PFDarg in accordance with< 6.00E-05	Diagnostics indication LED	
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— Low demand mode: PFDavg in accordance with < 6.00E-05	SIL acc. to IEC 61508	SIL 3
	Probability of failure (for service life of 20 years and repair time	e of 100 hours)
SIL3		< 6.00E-05

— High demand/continuous mode: PFH in accordance with SIL3

< 2.00E-09 1/h

with SIL3	
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
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	4 000 m; with derating
	4 000 m, with defating
Dimensions	4 000 m, with defailing
	15 mm
Dimensions	
Dimensions Width	15 mm
Dimensions Width Height	15 mm 73 mm
Dimensions Width Height Depth	15 mm 73 mm

last modified:

5/19/2023 🖸