SIEMENS

Data sheet

6ES7132-6BH00-0AA0

SIMATIC ET 200SP, digital output module, DQ 16x 24VDC/0.5A Basic, Pack quantity: 1 unit, suitable for BU type A0, Color code CC00, Module diagnostics



General information	
Product type designation	DQ 16x 24 V DC/0.5 A BA, PU 1
HW functional status	From FS03
Firmware version	V0.0
 FW update possible 	No
usable BaseUnits	BU type A0
Color code for module-specific color identification	CC00
plate	
Product function	
● I&M data	Yes; I&M0 to I&M3
 Isochronous mode 	No
Engineering with	
STEP 7 TIA Portal configurable/integrated as of	V14
version	
 STEP 7 configurable/integrated as of version 	STEP 7 V5.5 or higher
 PROFIBUS as of GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET as of 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.	55 mA; without load
Output voltage	
Rated value (DC)	24 V
Power loss	
Power loss, typ.	1 W
Address area	
Address space per module	
Outputs	2 byte
Hardware configuration	
Automatic encoding	Yes
 Mechanical coding element 	Yes
Selection of BaseUnit for connection variants	
1-wire connection	BU type A0
• 2-wire connection	BU type A0 + Potential isolation module
• 3-wire connection	BU type A0 + Potential isolation module
• 4-wire connection	BU type A0 + Potential isolation module
Digital outputs	
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	16
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
 Response threshold, typ. 	1.4 A; 0.7 to 1.9 A
Open-circuit detection	No
Limitation of inductive shutdown voltage to	Typ. L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• with resistive load, max.	0.5 A
• on lamp load, max.	5 W

Load resistance range	
• lower limit	48 Ω
• upper limit	100 kΩ
Output current	
● for signal "1" rated value	0.5 A
 for signal "0" residual current, max. 	30 μΑ
Output delay with resistive load	
• "0" to "1", typ.	80 μs; at rated load
• "0" to "1", max.	150 μs; at rated load
• "1" to "0", typ.	100 μs; at rated load
• "1" to "0", max.	200 μs; at rated load
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs	
Current per channel, max.	0.5 A
Current per module, max.	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	8 A
vertical installation	
— up to 50 °C, max.	8 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Monitoring the supply voltage	Yes
Wire-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 No

• for channel diagnostics

• for module diagnostics Yes; green/red DIAG LED

Potential separation

Potential separation channels

No • between the channels

• between the channels and backplane bus Yes

modules

Isolation tested with 707 V DC (type test)

Suitable for safety functions No Suitable for safety-related tripping of standard No

Ambient conditions

Ambient temperature during operation

-30 °C • horizontal installation, min. 60 °C • horizontal installation, max.

-30 °C • vertical installation, min.

50 °C • vertical installation, max.

Altitude during operation relating to sea level

• Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see

Width 15 mm Height 73 mm Depth 58 mm

Weights

Weight, approx. 30 g

05/09/2020 last modified: