SIEMENS

Data sheet

6ES7132-6BH00-2AA0



SIMATIC ET 200SP, digital output module, DQ 16x 24VDC/0.5A Basic, Pack quantity: 10 units, suitable for BU type A0, Color code CC00, Module diagnostics

Figure similar

General information		
Product type designation	DQ 16x24VDC/0.5A BA	
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 plate	CC00	
Product function		
I&M data	Yes; I&M0 to I&M3	
Isochronous mode	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V14	
 STEP 7 configurable/integrated from version 	STEP 7 V5.5 or higher	
 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.	55 mA; without load	
output voltage / header		
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	

• Type of mechanical coding element	Туре А
Selection of BaseUnit for connection variants	
 1-wire connection 	BU type A0
 2-wire connection 	BU type A0 + Potential distributor module
• 3-wire connection	BU type A0 + Potential distributor module
 4-wire connection 	BU type A0 + Potential distributor 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 µA
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	4.000
 shielded, max. 	1 000 m
	000
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Interrupts/diagnostics/status information Diagnostics function	Yes
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable	
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms	Yes Yes
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm	Yes
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses	Yes Yes Yes
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage	Yes Yes Yes
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage • Wire-break	Yes Yes Yes No
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit	Yes Yes Yes Yes No No
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error	Yes Yes Yes No
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED	Yes Yes Yes No No Yes
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED)	Yes Yes Yes Yes No No No Yes Yes
Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED	Yes Yes Yes No No Yes

 for module diagnostics 	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
between the channels	No
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	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	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g
last modified:	12/28/2021 🖸