## SIEMENS

## Data sheet

## 6ES7132-6BH01-0BA0



SIMATIC ET 200SP, Digital output module, DQ 16x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC00, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage

General information	
Product type designation	DQ 16x24VDC/0.5A ST
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	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V14
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3
<ul> <li>PCS 7 configurable/integrated from version</li> </ul>	V8.1 SP1
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.3
Operating mode	
• DQ	Yes
<ul> <li>DQ with energy-saving function</li> </ul>	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.	60 mA; without load
Output voltage	
Rated value (DC)	24 V
Power loss	
Power loss, typ.	1 W
Address area	
Address space per module	
Address space per module, max.	2 byte; + 2 bytes for QI information

Hardware configuration		
Automatic encoding	Yes	
Mechanical coding element	Yes	
Type of mechanical coding element	Туре А	
Selection of BaseUnit for connection variants	Турск	
• 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 A; 0.7 to 1.3 A	
Open-circuit detection	Yes	
Limitation of inductive shutdown voltage to	Typ. L+ (-50 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	12 kΩ	
Output current		
<ul> <li>for signal "1" rated value</li> </ul>	0.5 A	
<ul> <li>for signal "0" residual current, max.</li> </ul>	0.1 mA	
Output delay with resistive load		
• "0" to "1", typ.	50 µs	
• "1" to "0", typ.	100 µs	
Parallel switching of two outputs		
<ul> <li>for uprating</li> </ul>	No	
<ul> <li>for redundant control of a load</li> </ul>	Yes	
Switching frequency		
<ul> <li>with resistive load, max.</li> </ul>	100 Hz	
<ul> <li>with inductive load, max.</li> </ul>	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	0.4	
— up to 40 °C, max.	8 A	
— up to 50 °C, max.	6 A	
— up to 60 °C, max.	4 A	
vertical installation	ο A	
— up to 30 °C, max. — up to 40 °C, max.	8 A 6 A	
— up to 50 °C, max. — up to 50 °C, max.	6 A 4 A	
Cable length		
<ul> <li>shielded, max.</li> </ul>	1 000 m	
<ul> <li>snielded, max.</li> <li>unshielded, max.</li> </ul>	600 m	
Interrupts/diagnostics/status information	Vee	
Diagnostics function	Yes	
Substitute values connectable	Yes	
Alarms		

• Diagnostic alarm	Yes
Diagnoses	
<ul> <li>Monitoring the supply voltage</li> </ul>	Yes
Wire-break	Yes; Module-wise
<ul> <li>Short-circuit to M</li> </ul>	Yes; Module-wise
<ul> <li>Short-circuit to L+</li> </ul>	Yes; Module-wise
Group error	Yes
Diagnostics indication LED	
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green PWR LED
<ul> <li>Channel status display</li> </ul>	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	No
<ul> <li>for module diagnostics</li> </ul>	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Suitable for safety-related tripping of standard modules	Yes
Highest safety class achievable in safety mode	
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PL d
• SIL acc. to IEC 61508	SIL 2
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; < 0 °C as of FS03
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C; < 0 °C as of FS03
<ul> <li>vertical installation, max.</li> </ul>	50 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g
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