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, 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 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 	V5.5 SP3
 PCS 7 configurable/integrated from version 	V8.1 SP1
 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.	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	Type A	
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 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		
• for signal "1" rated value	0.5 A	
• for signal "0" residual current, max.	0.1 mA	
Output delay with resistive load	3	
• "0" to "1", typ.	50 μs	
• "1" to "0", typ.	100 µs	
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	10-116	
Current per channel, max.	0.5 A	
Current per module, max.	8 A	
Total current of the outputs (per module)		
horizontal installation		
— up to 40 °C, max.	8 A	
— up to 40 °C, max.	6 A	
— up to 60 °C, max.	4 A	
vertical installation		
— up to 30 °C, max.	8 A	
— up to 40 °C, max.	6 A	
— up to 40 °C, max.	4 A	
Cable length		
• shielded, max.	1 000 m	
snielded, max.unshielded, max.	600 m	
	000 III	
Interrupts/diagnostics/status information	V	
Diagnostics function	Yes	
Substitute values connectable	Yes	
Alarms		

Diagnostic alarm	Yes
Diagnoses	
 Monitoring the supply voltage 	Yes
Wire-break	Yes; Module-wise
Short-circuit to M	Yes
Short-circuit to L+	Yes
Group error	Yes
Diagnostics indication LED	
 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED
 Channel status display 	Yes; green LED
 for channel diagnostics 	No
 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
Suitable for safety-related tripping of standard modules	Yes; From FS01
Highest safety class achievable in safety mode	
 Performance level according to ISO 13849-1 	PL d
 SIL acc. to IEC 61508 	SIL 2
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; < 0 °C as of FS03
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS03
vertical installation, max.	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	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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