SIEMENS

Data sheet

6ES7132-6BH00-2BA0



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

General information		
Product type designation	DQ 16x24 VDC/0.5 A ST	
Firmware version		
 FW update possible 	Yes	
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 	V11 SP2 / V13	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	GSD Revision 5	
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	
Redundancy		
 Redundancy capability 	Yes	
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	

Hardware configuration	
Automatic encoding	
Mechanical coding element	Yes
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
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	
• "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	0.5 A
Current per channel, max. Current per module, max.	0.5 A
Current per module, max. Total current of the outputs (nor module)	8 A
Total current of the outputs (per module) horizontal installation	
— up to 30 °C, max.	8 A
— up to 30 °C, max. — up to 40 °C, max.	8 A
— up to 40 °C, max. — up to 50 °C, max.	6 A
— up to 60 °C, max. — up to 60 °C, max.	4 A
- up to 60°C, max.	77
— up to 30 °C, max.	8 A
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
— up to 60 °C, max.	4 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
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Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes; Module-wise
Short-circuit	Yes; Module-wise
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
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
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 FS03
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. 	0 °C
 horizontal installation, max. 	0° ℃
 vertical installation, min. 	0 °C; in all other mounting positions
vertical installation, max.	50 °C; in all other mounting positions
Altitude during operation relating to sea level	
Ambient air temperature-barometric pressure- altitude	On request: Ambient temperatures lower than 0 °C (without condensation) and/or installation altitudes greater than 2 000 m
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	28 g
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