SIEMENS

Data sheet

6ES7132-6BD20-0BA0

SIMATIC ET 200SP, digital output module, DQ 4x 24VDC/2A Standard, suitable for BU type A0, Color code CC02, Module diagnostics



General information	
Product type designation	DQ 4x24 V DC/2 A ST
HW functional status	From FS08
Firmware version	V1.1
 FW update possible 	Yes
usable BaseUnits	BU type A0
Color code for module-specific color identification	CC02
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 	V11 SP2 / V13
version	
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
 PCS 7 configurable/integrated as of version 	V8.1 SP1
 PROFIBUS as of GSD version/GSD revision 	GSD Revision 5
 PROFINET as of GSD version/GSD revision 	GSDML V2.3
Operating mode	

- 50	Yes
• DQ	
 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. 	1 byte; + 1 byte for QI information
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
• 3-wire connection	BU type A0 with AUX terminals or potential distributor 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	4
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
 Response threshold, typ. 	2.8 to 5.2 A
Limitation of inductive shutdown voltage to	Typ. L+ (-50 V)
Controlling a digital input	
	Yes
Switching capacity of the outputs	Yes

• with resistive load, max.	2 A
 on lamp load, max. 	10 W
Load resistance range	
lower limit	12 Ω
	3 400 Ω
upper limit Output current	3 400 32
for signal "1" rated value	2 A
-	0.1 mA
• for signal "0" residual current, max.	0.1111A
Output delay with resistive load	50.00
• "0" to "1", typ.	50 µs
• "0" to "1", max.	50 µs
• "1" to "0", typ.	100 µs
• "1" to "0", max.	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	
 Current per channel, max. 	2 A
 Current per module, max. 	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 30 °C, max.	8 A
— up to 40 °C, max.	8 A
— up to 50 °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 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 messages Yes • Monitoring the supply voltage Yes • Wire-break Yes; Module-wise • Short-icruit Yes; Module-wise • Group error Yes • Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED • Channel status display Yes; green PWR LED • for channel status display Yes; green PWR LED • for module diagnostics No • for module diagnostics Yes; green/red DIAG LED • for module diagnostics Yes • botween the channels No • between the channels No • between the channels and backplane bus Yes • between the channels No • between the channels No • between the channels and backplane bus Yes • between the channels No • between the channels No • between the channels Yes • batween the channels No Statate for safety-functors No Statate for safety-functors No Statate for safety-functors	• Diagnostic alarm	Yes
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Width 15 mm Height 73 mm Depth 58 mm Weights Veights	Dimensions	
Depth 58 mm Weights 58 mm		15 mm
Weights	Height	73 mm
	Depth	58 mm
Weight, approx. 30 g	Weights	
	Weight, approx.	30 g

last modified:

05/09/2020