SIEMENS

Data sheet

6ES7132-6BF01-0BA0

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SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage

General information	
Product type designation	DQ 8x24VDC/0.5A ST, PU 1
Firmware version	V0.0
 FW update possible 	No
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC02
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V14
 STEP 7 configurable/integrated as of version 	V5.5 SP3 or higher
 PCS 7 configurable/integrated as of version 	V8.1 SP1
 PROFIBUS as of GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET as of GSD version/GSD revision 	GSDML V2.3
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	No

• PWM	No
	No
Oversampling	No
MSO Redundancy	NO
	Yes
Redundancy capability	165
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.	35 mA; without load
Output voltage	
Rated value (DC)	24 V
Power loss Power loss, typ.	1 W
Address area	
Address space per module	
Inputs	+ 1 byte for QI information
Outputs	1 byte
Hardware configuration	
Automatic encoding	Yes
 Mechanical coding element 	Yes
Submodules	
 Number of configurable submodules, max. 	4
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
• 4-wire connection	BU type A0 + Potential isolation module
Digital outputs	
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	8
Current-sourcing	Yes
Short-circuit protection	Yes
 Response threshold, typ. 	1 A
Limitation of inductive shutdown voltage to	Typ. L+ (-50 V)
Controlling a digital input	Yes
Controlling a digital input Switching capacity of the outputs	Yes
	Yes 0.5 A

 on lamp load, max. 	5 W
Load resistance range	•
lower limit	48 Ω
• upper limit	10 12 12 kΩ
Output voltage	12 152
• for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	0.5 A
	0.5 A
for signal "1" permissible range, max.	0.1 mA
• for signal "0" residual current, max.	0.1 mA
Output delay with resistive load	50 μs; at rated load
• "0" to "1", max.	100 µs; at rated load
• "1" to "0", max.	του μs, at rated load
Parallel switching of two outputs	No
• for uprating	
• for redundant control of a load	Yes
Switching frequency	400.11-
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs	0.5.4
Current per channel, max.	0.5 A
• Current per module, max.	4 A
Total current of the outputs (per module)	
horizontal installation	
— up to 30 °C, max.	4 A
— up to 40 °C, max.	4 A
— up to 50 °C, max.	4 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 30 °C, max.	4 A; in all other mounting positions
— up to 40 °C, max.	4 A; in all other mounting positions
— up to 50 °C, max.	4 A; in all other mounting positions
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up	No
to terminal)	
Interrupts/diagnostics/status information	
Diagnostics function	Yes

Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
 Monitoring the supply voltage 	Yes
• Wire-break	Yes; Module-wise
Short-circuit to M	Yes; Module-wise
 Short-circuit to L+ 	Yes; Module-wise
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
 between the channels and the power supply of the electronics 	No
Isolation	
Isolation Isolation tested with	707 V DC (type test)
	707 V DC (type test)
Isolation tested with	707 V DC (type test)
Isolation tested with Ambient conditions	707 V DC (type test)
Isolation tested with Ambient conditions Ambient temperature during operation	
Isolation tested with Ambient conditions Ambient temperature during operation • horizontal installation, min.	0°C
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Isolation tested with Ambient conditions Ambient temperature during operation horizontal installation, min. horizontal installation, max. vertical installation, min.	0 °C 60 °C 0 °C; in all other mounting positions
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Isolation tested with Ambient conditions Ambient temperature during operation horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. Altitude during operation relating to sea level Ambient air temperature-barometric pressure-	0 °C 60 °C 0 °C; in all other mounting positions 50 °C; in all other mounting positions On request: Ambient temperatures lower than 0 °C (without
Isolation tested with Ambient conditions Ambient temperature during operation horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. Altitude during operation relating to sea level Ambient air temperature-barometric pressure- altitude Dimensions Width	0 °C 60 °C 0 °C; in all other mounting positions 50 °C; in all other mounting positions On request: Ambient temperatures lower than 0 °C (without condensation) and/or installation altitudes greater than 2 000 m 15 mm
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