## **SIEMENS**

## **Data sheet**

6ES7132-6BF00-0CA0



SIMATIC ET 200SP, digital output module, DQ 8x 24VDC/0.5A High Feature, source output PNP, source output, Packing unit: 1 unit, suitable for BU type A0, color code CC02, Channel diagnostics for: Short-circuit and wire break; supply voltage, channel fault LED

Figure similar

General information		
Product type designation	DQ 8x24 V DC/0.5 A HF	
HW functional status	From FS07	
Firmware version		
FW update possible	Yes	
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	
<ul> <li>Isochronous mode</li> </ul>	Yes	
Engineering with		
STEP 7 TIA Portal configurable/integrated from version	V13 SP1 / -	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 / -	
<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	
<ul> <li>Oversampling</li> </ul>	No	
• MSO	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 (rated value)	28 mA	
Current consumption, max.	28 mA	
output voltage / header		
Rated value (DC)	24 V	
Power loss		
Power loss, typ.	1 W	
Address area		
Address space per module		
Address space per module, max.	8 byte; 2 channels per submodule + QI information	
Hardware configuration		
Automatic encoding	Yes	

Mechanical coding element	Yes
Type of mechanical coding element	Type A
Selection of BaseUnit for connection variants	-76
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 distributor module
Digital outputs	Do type 70 - 1 otential distributor module
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	8
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
Response threshold, typ.	0.7 to 1.3 A
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
<ul> <li>for redundant control of a load</li> </ul>	Yes
Switching frequency	
with resistive load, max.	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
<ul> <li>Current per module, max.</li> </ul>	4 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	4 A
vertical installation	
— up to 50 °C, max.	4 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
Execution and activation time (TCO), min.	48 µs
Bus cycle time (TDP), min.	500 μs
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes; channel by channel
Wire-break     Short-circuit	Yes; channel by channel Yes; channel by channel

Diagnostics indication LED	
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green PWR LED
Channel status display	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	Yes; red LED
<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
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	No
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	No; see FAQ Entry ID: 39198632
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; < 0 °C as of FS07
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C; < 0 °C as of FS07
vertical installation, max.	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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