## **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
Isochronous mode	Yes
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	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
PROFINET from GSD version/GSD revision	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
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
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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
3-wire connection	BU type A0 with AUX terminals or 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	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	
<ul><li>for uprating</li></ul>	No
for redundant control of a load	Yes
Switching frequency	
<ul> <li>with resistive load, max.</li> </ul>	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
Current per module, max.	4 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	4 A
vertical installation	4.0
— up to 50 °C, max.	4 A
Cable length	1 000 m
shielded, max.      unchielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	40
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	Van
Diagnostic alarm	Yes
Diagnoses	Vac
Monitoring the supply voltage     Wire break	Yes
Wire-break     Short circuit	Yes; channel by channel
Short-circuit     Croup error	Yes; channel by channel
Group error  Diagnostics indication LED	Yes
Diagnostics indication LED	

Yes; green PWR LED • Monitoring of the supply voltage (PWR-LED) Channel status display Yes; green LED • for channel diagnostics Yes; red LED • for module diagnostics Yes; green/red DIAG LED Potential separation Potential separation channels No • between the channels • between the channels and backplane bus Yes • between the channels and the power supply of the electronics 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 Highest safety class achievable in safety mode PL d • Performance level according to ISO 13849-1 • SIL acc. to IEC 61508 SIL 2 **Ambient conditions** Ambient temperature during operation • horizontal installation, min. -30 °C; < 0 °C as of FS07 • horizontal installation, max. 60 °C • vertical installation, min. -30 °C; < 0 °C as of FS07 50 °C · vertical installation, max. 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 Width 15 mm Height 73 mm Depth 58 mm Weights Weight, approx. 30 g 10/1/2021 last modified: