6ES7132-6BF61-0AA0

## **Data sheet**



SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Sink Basic, Sink output (NPN, M-switching), Packing unit: 1 piece, fits to BU-type A0, Colour Code CC01, substitute value output, module diagnostics for: supply voltage

General information		
Product type designation	DQ 8x24VDC/0,5A SNK BA	
HW functional status	From FS02	
Firmware version	V0.0	
<ul> <li>FW update possible</li> </ul>	No	
usable BaseUnits	BU type A0	
Color code for module-specific color identification plate	CC01	
Product function		
<ul> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3	
Isochronous mode	No	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V14	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3	
<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	No	
Redundancy		
<ul> <li>Redundancy capability</li> </ul>	Yes	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Output voltage		
Rated value (DC)	24 V	
Power loss		
Power loss, typ.	1.5 W	
Address area		
Address space per module		
Outputs	1 byte	
Hardware configuration		
Automatic encoding	Yes	

Mechanical coding element	Yes
Type of mechanical coding element	type B
Digital outputs	1,500
Type of digital output	Sink output (NPN)
Number of digital outputs	8
Current-sinking	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
Response threshold, typ.	1.5 A
Limitation of inductive shutdown voltage to	Typ. 47 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	3 **
• lower limit	48 Ω
upper limit	3 400 Ω
Output current	3 400 12
·	0.5.4
• for signal "1" rated value	0.5 A 0.5 A
• for signal "1" permissible range, max.	
for signal "0" residual current, max.	5 μΑ
Output delay with resistive load	000
• "0" to "1", max.	300 µs
• "1" to "0", max.	600 µs
Parallel switching of two outputs	N.
• for uprating	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>	0.5 Hz
on lamp load, max.	10 Hz
Total current of the outputs	
<ul> <li>Current per channel, max.</li> </ul>	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	
— up to 50 °C, max.	4 A
Cable length	
<ul><li>shielded, max.</li></ul>	1 000 m
<ul><li>unshielded, max.</li></ul>	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	No
Short-circuit	No
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	. 30, grooting bir to LLD
Totential Separation	

Potential separation channels	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-25 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-25 °C
<ul> <li>vertical installation, max.</li> </ul>	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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