## **Data sheet**

6ES7522-1BP50-0AA0



SIMATIC S7-1500, digital output module, DQ 64xDC 24V/0.3A SNK BA, 64 channels in groups of 16, 2 A per group at 60  $^{\circ}$ C, sourcing output, 35 mm wide cables and terminal blocks to be ordered separately as accessories

General information	
Product type designation	DQ 64x24VDC/0.3A SNK BA
HW functional status	From FS01
Firmware version	V1.0.0
<ul> <li>FW update possible</li> </ul>	Yes
Product function	
I&M data	Yes; I&M0 to I&M3
<ul> <li>Isochronous mode</li> </ul>	No
Prioritized startup	No
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V16 with HSP 0319 / V17
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	V1.0 / V5.1
PROFINET from GSD version/GSD revision	V2.35 / -
Operating mode	
• DQ	Yes
<ul> <li>DQ with energy-saving function</li> </ul>	No
• PWM	No
<ul> <li>Cam control (switching at comparison values)</li> </ul>	No
<ul> <li>Oversampling</li> </ul>	No
• MSO	Yes
Integrated operating cycle counter	No
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; Through internal protection with 4 A per group
external protection for power supply lines (recommendation)	24 V DC/6 A miniature circuit breaker with type B tripping characteristic
Input current	
Current consumption, max.	90 mA; without load
output voltage / header	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	0.6 W
Power loss	
Power loss, typ.	4.7 W
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	64

Current-sinking	Yes
Current-sourcing	No
Digital outputs, parameterizable	No
Short-circuit protection	No; external fusing necessary, max. 4 A per group, tripping
	characteristic type B or C
Limitation of inductive shutdown voltage to	L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul><li>with resistive load, max.</li></ul>	0.3 A
● on lamp load, max.	5 W
Load resistance range	
<ul><li>lower limit</li></ul>	80 Ω
• upper limit	10 kΩ
Output voltage	
• for signal "1", min.	M+ (0.5 V)
Output current	
for signal "1" rated value	0.3 A
<ul><li>for signal "1" permissible range, max.</li></ul>	0.3 A
<ul> <li>for signal "0" residual current, max.</li> </ul>	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 μs
Parallel switching of two outputs	ουν μο
·	Yes
• for logic links	Yes No
• for uprating	
for redundant control of a load	Yes
Switching frequency	400 11
with resistive load, max.	100 Hz
<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz; According to IEC 60947-5-1, DC-13
● on lamp load, max.	10 Hz
Total current of the outputs	
<ul> <li>Current per channel, max.</li> </ul>	0.3 A
<ul> <li>Current per group, max.</li> </ul>	2 A
<ul> <li>Current per module, max.</li> </ul>	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	8 A
vertical installation	
— up to 40 °C, max.	8 A
Cable length	
shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
	N
Diagnostics function	No
Substitute values connectable	No
Alarms	
<ul> <li>Diagnostic alarm</li> </ul>	No
Maintenance interrupt	No
Diagnoses	
<ul> <li>Monitoring the supply voltage</li> </ul>	No
Wire-break	No
Short-circuit	No
Group error	No
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
MAINT LED	No
Monitoring of the supply voltage (PWR-LED)	Yes; via SIMATIC TOP connect connection module
Channel status display	Yes; via SIMATIC TOP connect connection module
for channel diagnostics	No
	I NI /
• for modulo discreption	
• for module diagnostics	No
Potential separation	

<ul> <li>between the channels, in groups of</li> </ul>	16; 32 when using SIMATIC TOP connect connection module
<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
Suitable for safety-related tripping of standard modules	No
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C
vertical installation, max.	40 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	270 g
Other	
Note:	Please order cable and connection modules separately

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