SIEMENS

Data sheet

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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 °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	
 FW update possible 	Yes	
Product function		
• I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Prioritized startup	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V16 with HSP 0319 / V17	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1	
 PROFINET from GSD version/GSD revision 	V2.35 / -	
Operating mode		
• DQ	Yes	
 DQ with energy-saving function 	No	
• PWM	No	
 Cam control (switching at comparison values) 	No	
Oversampling	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		
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	
• with resistive load, max.	0.3 A
 on lamp load, max. 	5 W
Load resistance range	
lower limit	80 Ω
upper limit	10 kΩ
Output voltage	
	M1 (0 5)()
• for signal "1", min.	M+ (0.5 V)
Output current	0.2 A
for signal "1" rated value	0.3 A
• for signal "1" permissible range, max.	0.3 A
• for signal "0" residual current, max.	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	
 for logic links 	Yes
 for uprating 	No
 for redundant control of a load 	Yes
Switching frequency	
 with resistive load, max. 	100 Hz
 with inductive load, max. 	0.5 Hz; According to IEC 60947-5-1, DC-13
• on lamp load, max.	10 Hz
Total current of the outputs	
 Current per channel, max. 	0.3 A
 Current per group, max. 	2 A
 Current per module, max. 	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	
Diagnostics function	No
Substitute values connectable	No
Alarms	
	No
Diagnostic alarm Maintenance interrupt	No
Maintenance interrupt	No
Diagnoses	Ne
Monitoring the supply voltage	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
 for module diagnostics 	No
Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels, in groups of 	16; 32 when using SIMATIC TOP connect connection module
 between the channels and backplane bus 	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	
 horizontal installation, min. 	-30 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C
 vertical installation, max. 	40 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	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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