SIEMENS

Data sheet

6ES7522-1BH01-0AB0

SIMATIC S7-1500, digital output module DQ16x24 V DC/0.5 A HF; 16 channels in groups of 8; 4 A per group; Single-channel diagnostics; Substitute value: Front connector (screw terminals or push-in) to be ordered separately



General information	
HW functional status	FS02
Firmware version	V1.1.0
 FW update possible 	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V13 SP1 / -
 PROFIBUS as of GSD version/GSD revision 	V1.0 / V5.1
 PROFINET as of GSD version/GSD revision 	V2.3 / -
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 	Yes

Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes; through internal protection with 7 A per group
Input current	
Current consumption, max.	30 mA
Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	1.1 W
Power loss	
Power loss Power loss, typ.	2 W
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	16
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes; Clocked electronically
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-53 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 voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
 for signal "1" rated value 	0.5 A
 for signal "1" permissible range, max. 	0.5 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

Yes
100 Hz
0.5 Hz; According to IEC 60947-5-1, DC-13
10 Hz
0.5 A; see additional description in the manual
4 A; see additional description in the manual
8 A; see additional description in the manual
1 000 m
600 m
Yes
70 µs
250 μs
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes; Green LED
Yes; Red LED
Yes; Yellow LED
Yes; Green LED
Yes; Green LED Yes; Green LED
Yes; Green LED
Yes; Green LED Yes; Red LED
Yes; Green LED Yes; Red LED
Yes; Green LED Yes; Red LED
Yes; Green LED Yes; Red LED Yes; Red LED

Isolation		
Isolation tested with	707 V DC (type test)	
Standards, approvals, certificates		
Suitable for safety functions	No	
Suitable for safety-related tripping of standard	Yes; From FS02	
modules		
Highest safety class achievable for safety-related tripping of standard modules		
 Performance level according to ISO 13849-1 	PL d	
 Category according to ISO 13849-1 	Cat. 3	
 SILCL according to IEC 62061 	SILCL 2	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	0°0	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	0 °C	
 vertical installation, max. 	60 °C	
Decentralized operation		
Prioritized startup	Yes	
Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	230 g	
last modified:	08/30/2019	