SIEMENS

Data sheet

6ES7522-5HH00-0AB0

SIMATIC S7-1500, digital output module DQ 16x 230 V AC/2 A ST; 16 channels in groups of 2; 4 A per group; Diagnostics, substitute value: Front connector (screw terminals or push-in) to be ordered separately



General information	
HW functional status	FS01
Firmware version	V1.0.0
 FW update possible 	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
 Prioritized startup 	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V13 SP1 / -
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
 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
 Oversampling 	No
• MSO	Yes

Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Output voltage Rated value (AC) Power	
permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Output voltage Rated value (AC) 20.4 V 28.8 V 150 mA	
permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. 150 mA Output voltage Rated value (AC) 28.8 V Yes	
Reverse polarity protection Yes Input current Current consumption, max. 150 mA Output voltage Rated value (AC) 230 V; 24 V DC to 120 V DC / 24 V AC to 230 V AC	
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Power	
L OME	
Power available from the backplane bus 0.8 W	
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Power loss 5 M	
Power loss, typ. 5 W	
Digital outputs	
Type of digital output Relays	
Number of digital outputs 16	
Current-sinking Yes	
Current-sourcing Yes	
Digital outputs, parameterizable Yes	
Short-circuit protection No	
Controlling a digital input Yes	
Size of motor starters according to NEMA, max. 5	
Switching capacity of the outputs	
• on lamp load, max. 50 W (230 V AC), 5 W (24 V DC)	
Output current	
• for signal "1" rated value 2 A	
● for signal "1" permissible range, min. 10 mA; 10 V	
• for signal "1" permissible range, max. 2 A; thermal continuous current	
• for signal "0" residual current, max.	
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.	
• with inductive load, max. 0.5 Hz	
• on lamp load, max.	
Total current of the outputs	
Current per channel, max. 2 A; see additional description in the manual	
• Current per group, max. 4 A; see additional description in the manual	

Current per module, max.	32 A; see additional description in the manual
Relay outputs	
Number of relay outputs	16
 Rated supply voltage of relay coil L+ (DC) 	24 V
 Current consumption of relays (coil current of 	150 mA
all relays), typ.	
 external protection for relay outputs 	Miniature circuit breaker B10 / B16
 Contact connection (internal) 	No
 Number of operating cycles, max. 	see additional description in the manual
 Relay approved acc. to UL 508 	No
Switching capacity of contacts	
— with inductive load, max.	2 A; see additional description in the manual
— with resistive load, max.	2 A; see additional description in the manual
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up	No
to terminal)	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Maintenance interrupt	No
Diagnostic messages	
Monitoring the supply voltage	Yes
Wire-break	No
Short-circuit	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
 Monitoring of the supply voltage (PWR-LED) 	Yes; Green LED
Monitoring of the supply voltage (PWR-LED)Channel status display	Yes; Green LED Yes; Green LED
Channel status display	Yes; Green LED
Channel status displayfor channel diagnostics	Yes; Green LED No
 Channel status display for channel diagnostics for module diagnostics 	Yes; Green LED No
 Channel status display for channel diagnostics for module diagnostics Potential separation	Yes; Green LED No
 Channel status display for channel diagnostics for module diagnostics Potential separation Potential separation channels	Yes; Green LED No Yes; Red LED

Between the channels and load voltage L+	Yes
Permissible potential difference	
between different circuits	250 V AC between the channels and the supply voltage L+; 250 V AC between the channels and the backplane bus; 500 V AC between the channels
Isolation	
Isolation tested with	Between channels: 3 100 V DC; between channels backplane bus: 3 100 V DC; between L+ and backplane bus: 707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	0 °C
 horizontal installation, max. 	60 °C
• vertical installation, min.	0 °C
• vertical installation, max.	40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	350 g
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