Data sheet

SIMATIC S7-1500, digital output module DQ 16x230 V AC/1 A ST; TRIAC; 16 channels in groups of 2; 2 A per group; Substitute value: Front connector (screw terminals or push-in) to be ordered separately



DQ 16x230VAC/1A ST (Triac)
FS01
V1.0.0
Yes
Yes; I&M0 to I&M3
No
Yes
V13 SP1 / -
V5.5 SP3 / -
V1.0 / V5.1
V2.3 / -
Yes
No
No

**PNAP** 

Oversampling	No
MSO	Yes
• IVISO	163
Output voltage	
Rated value (AC)	230 V; 120/230 V AC, 50/60 Hz
Power	
Power available from the backplane bus	1.2 W
Power loss	
Power loss, typ.	11.1 W
Digital outputs	
Type of digital output	Triac
Number of digital outputs	16
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
• built-in fuse	6.3 A melting fuse, slow-blow
Size of motor starters according to NEMA, max.	4
Switching capacity of the outputs	
with resistive load, max.	1 A
• on lamp load, max.	50 W
Output voltage	
• for signal "1", min.	L1 (-1.5 V) at maximum output current; L1 (-8.5 V) at minimum
	output current
Output current	
• for signal "1" rated value	1 A
• for signal "1" permissible range, min.	10 mA
• for signal "1" permissible range, max.	15 A; max. 1 AC cycle
<ul><li>for signal "0" residual current, max.</li></ul>	2 mA
Output delay with resistive load	
• "0" to "1", max.	1 AC cycle
• "1" to "0", max.	1 AC cycle
Parallel switching of two outputs	
• for logic links	No
• for uprating	No
<ul> <li>for redundant control of a load</li> </ul>	Yes
Switching frequency	
with resistive load, max.	10 Hz
<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs	
Current per channel, max.	1 A; see additional description in the manual



Current per group, max.	2 A; see additional description in the manual
Current per module, max.	10 A; see additional description in the manual
Cable length	, I
• shielded, max.	1 000 m
• unshielded, max.	600 m
anomorada, maxi	
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	Yes
Alarms	No.
Diagnostic alarm	No
Maintenance interrupt	No
Diagnoses	
<ul> <li>Monitoring the supply voltage</li> </ul>	No 
Wire-break	No 
Short-circuit	No
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
<ul><li>Monitoring of the supply voltage (PWR-LED)</li></ul>	No
<ul><li>Channel status display</li></ul>	Yes; green LED
<ul><li>for channel diagnostics</li></ul>	No
• for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	
<ul><li>between the channels</li></ul>	No
<ul><li>between the channels, in groups of</li></ul>	2
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Permissible potential difference	
between different circuits	250 V AC between the channels and the backplane bus; 500 V
	AC between the channels
Isolation	
Isolation tested with	3 100 V DC
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	0 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
• vertical installation, min.	0 °C
<ul> <li>vertical installation, max.</li> </ul>	60 °C



Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	310 g
last modified:	10/13/2020

6ES7522-5FH00-0AB0

Page 4/4

**☼ PNAP**