SIEMENS

Data sheet

6ES7522-5FH00-0AB0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 16 X 230VAC / 1A ST,TRIAC; 16 CHANNELS IN GROUPS OF 2, 2A PER GROUP; SUBSTITUTE VALUE



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

Output voltage	
Rated value (AC)	230 V; 120/230V AC, 50/60 Hz
Power	
Power available from the backplane bus	1.2 W
Power loss Power loss, typ.	11.1 W
Fower loss, typ.	11.1 VV
Digital outputs	
Number of digital outputs	16
Current-sinking	Yes
Current-sourcing	Yes
Short-circuit protection	No
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
• for signal "0" residual current, max.	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
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	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
Triac outputs	
Size of motor starters according to NEMA, max.	4
Cable length	
• shielded, max.	1 000 m

• unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	No
Diagnostic messages	
Monitoring the supply voltage	No
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)	No
 Channel status display 	Yes; Green LED
• for channel diagnostics	No
• for module diagnostics	Yes; Red LED
Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels, in groups of 	2
 between the channels and backplane bus 	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
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	0 °C
 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.	310 g

last modified: 12/01/2016