6ES7522-5FH00-0AB0

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

General information	
Product type designation	DQ 16x230VAC/1A ST (Triac)
HW functional status	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	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 / -
 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	V2.3 / -
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	No
• PWM	No
 Oversampling 	No
• MSO	Yes
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 reciptive local recov	4.0
with resistive load, max.	1 A
• on lamp load, max.	50 W
Output voltage	14/4510
• 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	17.0 0900
• for logic links	No
• for uprating	No
for redundant control of a load	Yes
Switching frequency	103
with resistive load, max.	10 Hz
with resistive load, max. with inductive load, max.	0.5 Hz
	1 Hz
on lamp load, max. Total current of the outputs	I NZ
·	1 A: and additional description in the manual
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. Cable langth	10 A; see additional description in the manual
Cable length	1 000 m
• shielded, max.	
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No Y
Substitute values connectable	Yes
Alarms	Na
Diagnostic alarm	No
Maintenance interrupt	No
Diagnoses	Na
Monitoring the supply voltage	No No
Wire-break Object significant	No
Short-circuit Diagnostics indication LED.	No
Diagnostics indication LED	Veer green 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
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.	310 g

last modified: 2/7/2021 🖸