SIEMENS

Data sheet

6ES7522-5FF00-0AB0



SIMATIC S7-1500, digital output module DQ 8x230 V AC/2 A ST; TRIAC; 8 channels in groups of 1; 2 A per group; Substitute value: Front connector (screw terminals or push-in) to be ordered separately

Figure similar

General information	
Product type designation	DQ 8x230 V AC/2A ST (triac)
HW functional status	From FS01
Firmware version	V2.2.0
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 	V12 / V12
 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
 Integrated operating cycle counter 	Yes; FW V2.2.0 or higher
output voltage / header	
Rated value (AC)	230 V; 120/230 V AC, 50/60 Hz
Power	
Power available from the backplane bus	0.9 W
Power loss	
Power loss, typ.	10.8 W
Digital outputs	
Type of digital output	Triac
Number of digital outputs	8
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.	5
Switching capacity of the outputs	
with resistive load, max.	2 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	2 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	ZIIIA
• "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 resistive load, max. with inductive load, max.	0.5 Hz
on lamp load, max.	1 Hz
Total current of the outputs	1112
Current per channel, max.	2 A; see additional description in the manual
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Current per group, max. Current per module, max.	2 A; see additional description in the manual
Current per module, max. Cable length	10 A; see additional description in the manual
Cable length	1 000 m
shielded, max.unshielded, max.	600 m
	600 111
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	No
Maintenance interrupt	Yes; maintenance alarm for switching cycle counter
Diagnoses	
 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	Yes
 between the channels, in groups of 	
between the chambers, in groups of	1
between the channels and backplane bus	1 Yes
between the channels and backplane bus Between the channels and load voltage L1	Yes
 between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference	Yes Yes
between the channels and backplane bus Between the channels and load voltage L1	Yes
between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference between different circuits	Yes Yes 250 V AC between the channels and the backplane bus; 500 V AC
between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference between different circuits Isolation	Yes Yes 250 V AC between the channels and the backplane bus; 500 V AC between the channels
between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference between different circuits Isolation Isolation tested with	Yes Yes 250 V AC between the channels and the backplane bus; 500 V AC
between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference between different circuits Isolation Isolation tested with Standards, approvals, certificates	Yes Yes 250 V AC between the channels and the backplane bus; 500 V AC between the channels 3 100 V DC
between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference between different circuits Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	Yes Yes 250 V AC between the channels and the backplane bus; 500 V AC between the channels
between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference between different circuits Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions Ambient conditions	Yes Yes 250 V AC between the channels and the backplane bus; 500 V AC between the channels 3 100 V DC
between the channels and backplane bus Between the channels and load voltage L1 Permissible potential difference between different circuits Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	Yes Yes 250 V AC between the channels and the backplane bus; 500 V AC between the channels 3 100 V DC

horizontal installation, max.vertical installation, min.	60 °C
 vertical installation, max. 	40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	290 g

last modified: 2/10/2022 🖸