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	00 W
• 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	
• "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	100
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	1116
Current or the outputs Current per channel, max.	2 A; see additional description in the manual
	2 A; see additional description in the manual
Current per group, max.Current per module, max.	10 A; see additional description in the manual
Cable length	To A, see additional description in the mandal
-	1 000 m
shielded, max.	600 m
unshielded, max.	600 III
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 	1
between the channels and backplane bus	Yes
Between the channels and load voltage L1	Yes
Permissible potential difference	
- orringonore potential anterende	
hatwaan different circuits	250 V AC between the channels and the backglane bus: 500 V AC
between different circuits	250 V AC between the channels and the backplane bus; 500 V AC between the channels
Isolation	between the channels
Isolation Isolation tested with	
Isolation Isolation tested with Standards, approvals, certificates	3 100 V DC
Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	between the channels
Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions Ambient conditions	3 100 V DC
Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	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

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