SIEMENS

Data sheet

6ES7522-5HH00-0AB0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 16 X 230VAC / 2A ST; RELAY; 16 CHANNELS IN GROUPS OF 2, 4A PER GROUP; DIAGNOSIS; SUBSTITUTE VALUE



General information	
Product type designation	DQ 16x230VAC/2A ST (relay)
HW functional status	FS01
Firmware version	V1.0.0
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V13 SP1 / -
 STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
 PROFIBUS as of GSD version/GSD revision 	V1.0 / V5.1
 PROFINET as of GSD version/GSD revision 	V2.3 / -
Operating mode	
• MSO	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V

Reverse polarity protection	Yes	
Input current		
Current consumption, max.	150 mA	
Power		
Power available from the backplane bus	0.8 W	
Power loss	- W	
Power loss, typ.	5 W	
Digital outputs		
Number of digital outputs	16	
Current-sinking	Yes	
Current-sourcing	Yes	
Short-circuit protection	No	
Controlling a digital input	Yes	
Switching capacity of the outputs		
• on lamp load, max.	50 W (230 V AC), 5 W (24 V DC)	
Output current		
● for signal "1" rated value	2 A	
for signal "1" permissible range, min.	10 mA; 10 V	
for signal "1" permissible range, max.	2 A; thermal continuous current	
for signal "0" residual current, max.	0 A	
Parallel switching of two outputs		
• for logic links	Yes	
• for uprating	No	
 for redundant control of a load 	Yes	
Switching frequency		
with resistive load, max.	1 Hz	
with inductive load, max.	0.5 Hz	
• on lamp load, max.	1 Hz	
Total current of the outputs		
Current per channel, max.	2 A; see additional description in the manual	
 Current per group, max. 	2 A; see additional description in the manual	
 Current per module, max. 	32 A; see additional description in the manual	
Relay outputs		
Number of relay outputs	16	
 Rated supply voltage of relay coil L+ (DC) 	24 V	
 Current consumption of relays (coil current of all relays), max. 	150 mA	
 external protection for relay outputs 	Miniature circuit breaker B10 / B16	
Contact connection (internal)	No	
Size of motor starters according to NEMA, max.	5	
Number of operating cycles, max.	see additional description in the manual	

 Relay approved acc. to UL 508 	No
Switching capacity of contacts	
— with inductive load, max.	2 A; see additional description in the manual
— with resistive load, max.	2 A; see additional description in the manual
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up	No
to terminal)	
Interrunte/diagnostics/status information	
Interrupts/diagnostics/status information Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostics	Yes
Monitoring the supply voltage	Yes
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) 	Yes; Green LED
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
Between the channels and load voltage L+	Yes
Devenies in la sectantial differences	
Permissible potential difference between different circuits	75 V DC/60 V AC (base isolation) between backplane bus and the
	supply voltage L+; 250 V AC between the channels and the
	supply voltage L+; 250 V AC between the channels and the
	backplane bus; 500 V AC between the channels
Isolation	
Isolation tested with	Between the channels: 2500 V DC; between the channels and
	backplane bus: 2500 V DC; between L+ backplane bus 707 V DC
	(type test)

Decentralized operation	
Prioritized startup	Yes
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	350 g
last modified:	13.01.2016