SIEMENS

Data sheet

6ES7522-5HF00-0AB0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 8 X 230VAC/5A ST,RELAY; 8 CHANNELS IN GROUPS OF 1, 5A PER GROUP; DIAGNOSIS; SUBSTITUTE VALUE



Figure similar

General information	
Product type designation	DQ 8x230 V AC/5 A ST (relay)
HW functional status	FS01
Firmware version	V2.0.0
• FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of 	V12 / V12
version	
 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	
• DQ	Yes
 DQ with energy-saving function 	No
• PWM	No

Oversampling	No
• 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.	80 mA
Output voltage	
Rated value (AC)	230 V; 24 V DC to 120 V DC / 24 V AC to 230 V AC
Power	
Power available from the backplane bus	0.8 W
Power loss	
Power loss, typ.	5 W
Digital outputs	
Number of digital outputs	8
Current-sinking	Yes
Current-sourcing	Yes
Short-circuit protection	No
Controlling a digital input	possible
Switching capacity of the outputs	
• on lamp load, max.	1 500 W; 10 000 operating cycles
 Low energy/fluorescent lamps with electronic 	10x 58 W (25 000 operating cycles)
control gear	
 Fluorescent tubes, conventionally compensated 	1x 58 W (25 000 operating cycles)
 Fluorescent tubes, uncompensated 	10x 58 W (25 000 operating cycles)
Output current	
● for signal "1" rated value	5 A
 for signal "1" permissible range, min. 	5 mA; 10 V
 for signal "1" permissible range, max. 	8 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.	2 Hz
 with resistive load, max. with inductive load, max. 	0.5 Hz
	2 Hz
• on lamp load, max.	

Total current of the outputs	
Current per channel, max.	8 A; see additional description in the manual
 Current per group, max. 	8 A; see additional description in the manual
• Current per module, max.	64 A; see additional description in the manual
Relay outputs	
 Number of relay outputs 	8
 Rated supply voltage of relay coil L+ (DC) 	24 V
 Current consumption of relays (coil current of all relays), typ. 	80 mA
 external protection for relay outputs 	With miniature circuit breaker with characteristic B for: $\cos \phi$ 1.0: 600 A $\cos \phi$ 0.5 0.7: 900 A with 8 A Diazed fuse: 1000 A
 Contact connection (internal) 	No
 Size of motor starters according to NEMA, max. 	5
 Number of operating cycles, max. 	4 000 000; see additional description in the manual
 Relay approved acc. to UL 508 	Yes; 250 V AC/5 A g.p.; 120 V AC TV-4 tungsten; A300, R300
Switching capacity of contacts	
— with inductive load, max.	see additional description in the manual
— with resistive load, max.	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)	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
 Diagnostic alarm 	Yes
Diagnostic alarm Diagnostic messages	Yes
_	Yes
Diagnostic messages	
Diagnostic messages Monitoring the supply voltage	Yes
Diagnostic messages Monitoring the supply voltage Wire-break 	Yes No
Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit	Yes No
Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit Diagnostics indication LED	Yes No No
Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit Diagnostics indication LED • RUN LED	Yes No No Yes; Green LED
Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit Diagnostics indication LED • RUN LED • ERROR LED	Yes No No Yes; Green LED Yes; Red LED
Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED)	Yes No No Yes; Green LED Yes; Red LED Yes; Green LED
Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display	Yes No No Yes; Green LED Yes; Red LED Yes; Green LED Yes; Green LED

Potential separation channels	
 between the channels 	Yes; Switching of different phases permitted
 between the channels, in groups of 	1
 between the channels and backplane bus 	Yes
 Between the channels and load voltage L+ 	Yes
Permissible potential difference	
between different circuits	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 channels: 3 100 V DC; between channels backplane bus: 3 100 V DC; between L+ and backplane bus: 707 V DC (type test)
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
Decentralized operation	
Prioritized startup	Yes
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	350 g
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