



SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 8 X 230VAC,2A,TRIAC; 8 CHANNELS IN GROUPS OF 1, 2A PER GROUP; SUBSTITUTE VALUE

Figure similar

Product type designation	
General information	
HW functional status	E01
Firmware version	V2.0.0
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal can be configured/integrated as of version	V12 / V12
• STEP 7 can be configured/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
Power	
Power available from the backplane bus	0.9 W
Power losses	
Power loss, typ.	10.8 W
Digital outputs	
Number of digital outputs	8
Current-sourcing	Yes
short-circuit protection	No
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	
• "0" to "1", max.	1 AC cycle
• "1" to "0", max.	1 AC cycle
Parallel switching of 2 outputs	
• for logic links	No
• for increased power	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
Aggregate 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.	10 A; see additional description in the manual
Triac outputs	
• Size of motor starters according to NEMA, max.	5
Cable length	
• shielded, max.	1 000 m
• Unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Alarms	
• Diagnostic alarm	No
Diagnostic messages	
• Diagnostics	No
• Monitoring the supply voltage	No
• Wire break	No

• Short circuit	No
• Fuse blown	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

Galvanic isolation

Electrical isolation channels	
• between the channels	Yes
• between the channels, in groups of	1
• between the channels and the backplane bus	Yes
• between the channels and the load voltage L1	Yes

Permissible potential difference

between different circuits	250 V AC between the channels and the backplane bus; 500 V AC between the channels
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Isolation

Isolation checked with	2500 V DC
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Decentralized operation

Prioritized startup	Yes
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Dimensions

Width	35 mm
Height	147 mm
Depth	129 mm

Weights

Weight, approx.	290 g
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last modified: 12.03.2015