SIEMENS

Data sheet

6ES7522-1BL10-0AA0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE, DQ 32 X 24VDC/0.5A; 32 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; INCL. FRONT CONNECTOR PUSH-IN



DQ 32 x 24 V DC / 0.5 A BA
FS01
V1.0.0
Yes
Yes; I&M0 to I&M3
V13 / V13
V5.5 SP3 / -
V1.0 / V5.1
V2.3 / -
Yes
No
No
No
Yes

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; through internal protection with 7 A per group Input current Current consumption, max. 60 mA Output voltage Rated value (DC) 24 V Power Power loss. Power loss, typ. Digital outputs Sa.8 W Digital outputs Surrent-sourcing Yes Short-circuit protection Yes • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs • with resistive load, max. 5 W • with resistive load, max. 5 W • lower limit 48 Ω • upper limit 12 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) O	Supply voltage	
permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes; through internal protection with 7 A per group Input current Current consumption, max. 60 mA Output voltage Rated value (DC) Power Power available from the backplane bus 1.15 W Power loss Power loss Power loss Summary of digital outputs 22 Current-sourcing Yes Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input with resistive load, max. on lamp load, max. of or signal "1", min. L+ (-0.8 V) Output current of or signal "1" permissible range, max. of or signal "1" rated value of or signal "1" permissible range, max. of or signal "0" residual current, max. Output delay with resistive load Output delay with resistive load		24 V
Permissible range, upper limit (DC) 28.8 V		20.4 V
Reverse polarity protection Yes; through internal protection with 7 A per group Input current 60 mA Output voltage 84 V Rated value (DC) 24 V Power - Power loss Power loss - Power loss, typ. Power loss, typ. 3.8 W Digital outputs 32 Number of digital outputs 32 Current-sourcing Yes Short-circuit protection Yes • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range • lower limit 48 Ω • upper limit 12 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) Output current • for signal "1" permissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output delay with resistive load		28.8 V
Input current Current consumption, max. 60 mA Output voltage Rated value (DC) Power Power available from the backplane bus 1.15 W Power loss Power loss, typ. 3.8 W Digital outputs Number of digital outputs Current-sourcing Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs • with resistive load, max. • on lamp load, max. • on lamp load, max. • or signal "1", min. Output voltage • for signal "1" rated value • for signal "1" rated value • for signal "1" remissible range, max. • for signal "0" residual current, max. Output delay with resistive load Output delay with resistive load Output delay with resistive load		Yes; through internal protection with 7 A per group
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Output voltage Rated value (DC) 24 V Power Power loss Power loss 3.8 W Digital outputs Number of digital outputs Surrent-sourcing Yes Short-circuit protection Yes • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range • lower limit 48 Ω • upper limit 12 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) Output current • for signal "1" rated value 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output delay with resistive load		
Rated value (DC)	Current consumption, max.	60 mA
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Power loss, typ. Digital outputs Number of digital outputs Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs with resistive load, max. on lamp load, max. load resistance range lower limit upper limit for signal "1", min. L+ (-0.8 V) Output current for signal "1" rated value for signal "1" rated value for signal "1" residual current, max. 0.5 M 0.5 A		1 15 W
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Number of digital outputs 32 Current-sourcing Yes Short-circuit protection Yes • Response threshold, typ. 1 A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs *** • with resistive load, max. • on lamp load, max. 5 W Load resistance range • lower limit 48 Ω • upper limit 12 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) Output current • for signal "1" rated value 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output delay with resistive load	Digital outputs	
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 Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Yes Switching capacity of the outputs with resistive load, max. on lamp load, max. to war. to war.<	Current-sourcing	Yes
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Output voltage • for signal "1", min. Output current • for signal "1" rated value • for signal "1" permissible range, max. • for signal "0" residual current, max. Output delay with resistive load	• lower limit	48 Ω
for signal "1", min. Output current for signal "1" rated value for signal "1" permissible range, max. for signal "0" residual current, max. Output delay with resistive load L+ (-0.8 V) 0.5 A 0.5 A 0.5 mA	• upper limit	12 kΩ
Output current • for signal "1" rated value • for signal "1" permissible range, max. • for signal "0" residual current, max. Output delay with resistive load	Output voltage	
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for signal "0" residual current, max. Output delay with resistive load 0.5 mA	● for signal "1" rated value	0.5 A
Output delay with resistive load	• for signal "1" permissible range, max.	0.5 A
	• for signal "0" residual current, max.	0.5 mA
• "0" to "1" may	Output delay with resistive load	
- ο το τ, πιαλ.	• "0" to "1", max.	100 µs
• "1" to "0", max. 500 μs	• "1" to "0", max.	500 μs
Parallel switching of two outputs	Parallel switching of two outputs	
• for logic links Yes	• for logic links	Yes
• for uprating No	• for uprating	No
• for redundant control of a load Yes	• for redundant control of a load	Yes
Switching frequency	Switching frequency	

with resistive load, max. with inductive load, max. vith inductive load, max. on lamp load, max. on lamp load, max. 10 Hz Total current per channel, max. 0.5 A; see additional description in the manual Current per group, max. 4 A; see additional description in the manual Current per module, max. 16 A; see additional description in the manual Cable length vishelded, max. 1000 m load max. unshielded, max. 1000 m Isochronous operation (application synchronized up to terminal) Interrupts/diagnostics/status information Diagnostics No Substitute values connectable Alarms Diagnostic alarm Diagnostic messages Monitoring the supply voltage Wire-break No Sind-circuit Group error No Diagnostics indication LED REROR LED Yes; Green LED Yes; Green LED Channel status display for channel diagnostics No For module diagnostics No Potential separation Potential separation Potential separation channels between the channels in groups of between the channels and backplane bus Permissible potential difference between difference and a dif		
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Cable length • Shielded, max. • I 1 000 m • Shielded, max. • unshielded, max. • Usochronous mode Isochronous operation (application synchronized up to terminal) Interrupts/diagnostics/status information Diagnostics No Substitute values connectable No No Diagnostic alarm • Diagnostic alarm • Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit • Short-circuit • Circup error Diagnostics indication LED • RUN LED • ERROR LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • between the channels • between the channels • between the channels • between the channels and backplane bus Permissible potential difference between different circuits 75 V DC/60 V AC (base isolation) Isolation Isolation tested with	Current per channel, max.	0.5 A; see additional description in the manual
Cable length • shielded, max. • unshielded, max. • unshielded, max. 1 000 m Sochronous mode Isochronous operation (application synchronized up to terminal) Interrupts/diagnostics/status information Diagnostics No Substitute values connectable No Alarms • Diagnostic alarm Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit • Croup error Diagnostics indication LED • RUN LED • RUN LED • RUN LED • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • between the channels • between the channels • between the channels and backplane bus Permissible potential difference between different circuits 75 V DC/60 V AC (base isolation) Isolation Isolation tested with	Current per group, max.	4 A; see additional description in the manual
shielded, max. unshielded, max. loo0 m sochronous mode	Current per module, max.	16 A; see additional description in the manual
unshielded, max.	Cable length	
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Isochronous operation (application synchronized up to terminal) Interrupts/diagnostics/status information Diagnostics Substitute values connectable Alarms Diagnostic alarm Diagnostic messages Monitoring the supply voltage Mo Wire-break Short-circuit Group error Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics between the channels between the channels between the channels and backplane bus Permissible potential difference between different circuits 75 V DC/60 V AC (base isolation) Isolation tested with	• unshielded, max.	600 m
Interrupts/diagnostics/status information Diagnostics No Substitute values connectable No Alarms • Diagnostic alarm No Diagnostic messages • Monitoring the supply voltage No • Wire-break No • Short-circuit No • Group error 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 No Potential separation Potential separation Potential separation channels • between the channels in groups of 8 • between the channels, in groups of 8 • between the channels and backplane bus Yes Permissible potential difference between different circuits 75 V DC/60 V AC (base isolation) Isolation Isolation tested with 707 V DC (type test)	Isochronous mode	
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Diagnostic messages • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • between the channels • between the channels, in groups of • between the channels and backplane bus Permissible potential difference between different circuits Pot (type test)	Diagnostic alarm	No
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between different circuits 75 V DC/60 V AC (base isolation) Isolation Isolation tested with 707 V DC (type test)	between the channels and backplane bus	Yes
Isolation Isolation tested with 707 V DC (type test)	Permissible potential difference	
Isolation tested with 707 V DC (type test)	between different circuits	75 V DC/60 V AC (base isolation)
	Isolation	
Decentralized operation	Isolation tested with	707 V DC (type test)
	Decentralized operation	

Prioritized startup	Yes
Dimensions	
Width	25 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	280 g
Other	
Note:	Supplied incl. 40-pole push-in front connectors
last modified:	22.02.2016