SIEMENS

Data sheet

6ES7523-1BL00-0AA0



SIMATIC S7-1500 digital input/output module, DI16x 24VDC BA, 16 channels in groups of 16, input delay typ. 3.2 ms input type 3 (IEC 61131), DQ16X24 V DC/0.5A BA; 16 channels in groups of 8; 4 A per group; the module supports the safety-oriented shutdown of load groups up to SILCL1 according to EN 62061:2005 + A2:2015, and Category 2 / PL c according to EN ISO 13849-1:2015. delivery incl. front connector push-in

General information	
Product type designation	DI 16x24VDC / DQ16x24VDC/0.5A BA
HW functional status	From FS01
Firmware version	V1.0.0
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 	V13 / V13
 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	
• DI	Yes
Counter	No
• DQ	Yes
 DQ with energy-saving function 	No
• PWM	No
Oversampling	No
• MSI	Yes
• MSO	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 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.	30 mA
output voltage / header	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	1.1 W
Power loss	
Power loss, typ.	3.45 W
Digital inputs	
Number of digital inputs	16

Source/sink input Preading Input characteristic curve in accordance with IEC 61131, type 3 Yes Input voltage Yes • Rated value (DC) 24 V • for signal °0" -30 to +5 V • for signal °1", typ. 27 mA Input delay (for rated value of input voltage) 7 • for signal °1", typ. 27 mA Input delay (for rated value of input voltage) 7 • for signal °1", typ. 27 mA Input delay (for rated value of input voltage) 7 • for signal °1", typ. 27 mA Input delay (for rated value of input voltage) 7 • for signal °1", typ. 3 ms - at °0" to °1", min. 3 ms - at °1" to °0", max. 4 ms for interrupt inputs - - parameterizable No Cable length 1000 m • unshielded, max. 600 m Digital outputs 1000 m Current-sourcing Yes Digital outputs, parameterizable No Short-circult protectin Yes	Digital inpute parameterizable	No
Input voltage Yes Input voltage 24 V • Rated value (DC) 24 V • for signal '0' -30 to -5 V • for signal '1' +11 to +30V Input delay (for rated value of input voltage) 2.7 mA • for signal '1', typ. 2.7 mA Input delay (for rated value of input voltage) 1 for standard inputs - - at '0' to '1', max. 4 ms - at '0' to '1', max. 4 ms - at '1' to '0', max. 4 ms - at '1' to '0', max. 4 ms - at '1' to '0', max. 600 m Optical duputs 1000 m - parameterizable No Shielded, max. 600 m Optical outputs 16 Type of digital outputs 16 Current-sourcing Yes Olgital outputs. 104 Ves - Response threshold, typ. I A Limitation of inductive shudzown voltage to Controlling a digital input Yes Switching capacity of the outputs 15 A <tr< td=""><td>Digital inputs, parameterizable</td><td></td></tr<>	Digital inputs, parameterizable	
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Input voltage • Rated value (DC) 24 V • for signal "0" -30 to +5 V • for signal "1" +111 to 430V Input durent - • for signal "1", typ. 2.7 mA Input durant - for signal "1", typ. 2.7 mA Input durant - for signal "1", typ. 2.7 mA Input delay (for rated value of input voltage) - for signal "1" max. 4 ms - at "0" to "1", max. 4 ms - at "1" to "0", min. 3 ms - at "1" to "0", min. 4 ms for interrupt inputs - - parameterizable No Cable length - • bileided, max. 1000 m unshelded, max. 600 m Digital output Transistor Number of digital outputs. 16 Current-sourcing Yes Digital outputs. Yes • Response threshold. typ. 1A Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Swit		100
• Rated value (DC) 24 V • for signal "0" -30 to +5 V • for signal "1", typ. -30 to +5 V • for signal "1", typ. 27 mA Input day (for rated value of input voltage) - for standard inputs - - parameterizable No at "0" to "1", min. 3 ms at "0" to "1", max. 4 ms - at "1" to "0", max. 4 ms for interrupt inputs - at "1" to "0", max. 4 ms for interrupt inputs - at matterizable No Cable length - • shielded, max. 600 m • shielded, max. 600 m • bype of digital outputs 16 Current sourcing Yes Digital outputs, parameterizable No Short-circuit protection Yes Short-circuit protection Yes Short-circuit protection Yes • Response threshold, typ. 1A Limitation of fuctures buttdown voltage to L+ (-63 V)		
• for signal "0" -30 to +5 V • for signal "1" +111 to -30V Input current • • for signal "1", typ. 2.7 mA Input delay (for rated value of input voltage) • for signal "1", typ. 2.7 mA Input delay (for rated value of input voltage) • for signal "1", typ. 2.7 mA Input delay (for rated value of input voltage) • - at "0" to "1", min. 3 ms - at "1" to "0", max. 4 ms tor interrupt inputs • - parameterizable No Cabbe length • • shielded, max. 1000 m Output outputs Transistor Number of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No Short-forcuit protection Yes Oligital outputs, parameterizable No Short-forcuit protection L+ (24 V
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Input current 2.7 mA • for signal "1", typ. 2.7 mA Input delay (for rated value of input voltage) 5 for standard inputs 0 - parameterizable No - at "0" to "1", min. 3 ms - at "0" to "1", max. 4 ms - at "1" to "0", max. 5 - unstituded, max. 0.000 m • unshielded, max. 1000 m • unshielded, max. 1000 m • unshielded, max. 1000 m • Unitation of inductive shutchown voltage to 1 Current-Sourcing Yes Short-Circuit protection Yes Swit	-	
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at "1" to "0", max. 4 ms for interrupt inputs parameterizable No Cable length • shielded, max. 1000 m • unshielded, max. 600 m Digital outputs Type of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No 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 5 W Load resistance range • or signal "1", min. • for signal "1", min. L+ (-0.8 V) Output voltage 0.5 A • for signal "1", rated value 0.5 A • for signal "1", rates value 0.5 A • for signal "1", max. 0.5 A • for signal "1", rates value 0.5 A • for signal "1", ratex value <td></td> <td>4 ms</td>		4 ms
for interrupt inputs No Cable length	— at "1" to "0", min.	3 ms
—parameterizable No Cable length 1000 m • ushielded, max. 600 m Digital outputs Transistor Type of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No Short-circuit protection Yes Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input 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 0.5 A • on lamp load, max. 0.5 A • olamp load, max. 5 W Load resistance range • for signal "1", min. L+ (-0.8 V) Output voltage 0.5 A • for signal "1", remissible range, max. 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 M Output delay with resistive load .05 M • for signal "1", max. 0.5 M Output delay with resistive load .05	— at "1" to "0", max.	4 ms
Cable length • shielded, max. 1 000 m • unshielded, max. 600 m Digital outputs 600 m Type of digital output Transistor Number of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No 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 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "1" permissible range, max.	for interrupt inputs	
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• unshielded, max. 600 m Digital outputs Transistor Type of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No 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 0.5 A • on lamp load, max. 0.5 A • lower limit 48 Ω • upper limit 12 kΩ Output voltage . • for signal *1*, min. L+ (-0.8 V) Output outrent .5 A • for signal *1* residue current, max. 0.5 A • for signal *1* residue current, max. 0.5 A • for signal *1* residue current, max. 0.5 A • for signal *1* residue load .5 mA Output deay with resistive load .5 mA Parallel switching of two outputs .500 µs	-	
Digital outputs Transistor Number of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No 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 0.5 A • on lamp load, max. 0.5 A • on lamp load, max. 5 W Load resistance range • • lower limit 48 Ω • upper limit 12 kΩ Output outrent 0.5 A • for signal "1", min. L+ (-0.8 V) Output outrent 0.5 A • for signal "1", min. L+ (-0.8 V) Output outrent 0.5 A • for signal "1" renet value 0.5 M • for signal "1" renet value 0.5 M • for signal "1" renet value <td></td> <td></td>		
Type of digital output Transistor Number of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No 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 0.5 A • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 48 Ω • upper limit 12 kΩ Output outrent 0.5 A • for signal "1", min. L+ (-0.8 V) Output outrent 0.5 A • for signal "1" remissible range, max. 0.5 A • for signal "1" remissible range, max. 0.5 A • for signal "1" remissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output deay with resistive load -0" o" raw. • "0" to "1", max. 100 µs • "1" to "0", max. 500 µs Parallel switching of two outputs <td></td> <td>600 m</td>		600 m
Number of digital outputs 16 Current-sourcing Yes Digital outputs, parameterizable No 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 0.5 A • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 48 Ω • upper limit 12 kΩ Output voltage . • for signal "1", min. L+ (-0.8 V) Output voltage . • for signal "1" permissible range, max. 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 A • for signal "0" residual current, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output delay with resistive load . • "0" to "1", max. 100 µs • "1" to "0", max. 500 µs Parallel switching of two outputs <	Digital outputs	
Current-sourcingYesDigital outputs, parameterizableNoShort-circuit protectionYes• Response threshold, typ.1 ALimitation of inductive shutdown voltage toL+ (-53 V)Controlling a digital inputYesSwitching capacity of the outputs• with resistive load, max.0.5 A• on lamp load, max.5 WLoad resistance range• lower limit48 Ω • upper limit12 k Ω Output voltage• for signal "1", min.L+ (-0.8 V)Output current• for signal "1" rated value0.5 A• for signal "1" permissible range, max.0.5 A• for signal "1" permissible range, max.0.5 A• for signal "0" residual current, max.0.5 mAOutput delay with resistive load0.5 mA• "0" to "1", max.100 µs• "1" to "0", max.500 µsParallel switching of two outputs100 µs	Type of digital output	Transistor
Digital outputs, parameterizable No 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 0.5 A • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range	Number of digital outputs	16
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 Yes • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 42 kΩ • output voltage 1 • for signal "1", min. L+ (-0.8 V) Output voltage 0.5 A • for signal "1" rated value 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "1" permissible range, max. 0.5 A • for signal "1" next. 0.5 A • for signal "1" next. 0.5 A • for signal "1" next. 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 100 µs • "0" to "1", max. 500 µs Parallel switching of two outputs 500 µs		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 0.5 A • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 12 kΩ Output voltage L+ (-0.8 V) Output current 0.5 A • for signal "1" rated value 0.5 A • for signal "1" residual current, max. 0.5 A • for signal "0" residual current, max. 0.5 A • Output delay with resistive load 100 µs • "0" to "1", max. 100 µs • "1" to "0", max. 500 µs	Digital outputs, parameterizable	No
Limitation of inductive shutdown voltage to L+ (-53 V) Controlling a digital input Yes Switching capacity of the outputs 0.5 A • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 12 kΩ Output voltage - • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • for signal "1" rated value 0.5 A • for signal "1" remissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output delay with resistive load - • "0" to "1", max. 100 µs • "1" to "0", max. 500 µs Parallel switching of two outputs -	Short-circuit protection	Yes
Controlling a digital input Yes Switching capacity of the outputs 0.5 A • with resistive load, max. 0.5 A • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 12 kΩ Output voltage 12 kΩ • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • 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 100 μs • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs Parallel switching of two outputs 100 μs	Response threshold, typ.	1A
Switching capacity of the outputs 0.5 A • with resistive load, max. 5 W Load resistance range 48 Ω • lower limit 48 Ω • upper limit 12 kΩ Output voltage	Limitation of inductive shutdown voltage to	L+ (-53 V)
• with resistive load, max. 0.5 Å • on lamp load, max. 5 W Load resistance range 48 Ω • lower limit 12 kΩ Output voltage 12 kΩ Output voltage + (-0.8 V) Output current 0.5 Å • for signal "1" rated value 0.5 Å • for signal "1" rated value 0.5 Å • for signal "1" remissible range, max. 0.5 Å • for signal "0" residual current, max. 0.5 A Output delay with resistive load 0.5 mÅ • "0" to "1", max. 0.5 mÅ • "0" to "1", max. 100 µs • "1" to "0", max. 500 µs Parallel switching of two outputs 500 µs		Yes
• on lamp load, max.5 WLoad resistance range48 Ω• lower limit48 Ω• upper limit12 kΩOutput voltage12 kΩ• for signal "1", min.L+ (-0.8 V)Output current0.5 A• for signal "1" permissible range, max.0.5 A• for signal "0" residual current, max.0.5 MOutput delay with resistive load• "0" to "1", max.100 μs• "1" to "0", max.500 μsParallel switching of two outputs		
Load resistance range 48 Ω • 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 • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs Parallel switching of two outputs		
• lower limit 48 Ω • upper limit 12 kΩ Output voltage • for signal "1", min. L+ (-0.8 V) Output current 0.5 A • 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 • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs		5 W
• 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 • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs	Load resistance range	
Output voltage • for signal "1", min. Dutput current • for signal "1" rated value • for signal "1" permissible range, max. • for signal "0" residual current, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 500 µs		
• for signal "1", min. L+ (-0.8 V) Output current 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 0.5 mA • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs		12 kΩ
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 0.5 mA • "0" to "1", max. 100 µs • "1" to "0", max. 500 µs Parallel switching of two outputs 500 µs		
• 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 0.5 mA • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs Parallel switching of two outputs		L+ (-0.8 V)
• for signal "1" permissible range, max. 0.5 A • for signal "0" residual current, max. 0.5 mA Output delay with resistive load 0.5 mA • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs Parallel switching of two outputs	· · ·	
• for signal "0" residual current, max. 0.5 mA Output delay with resistive load 0.5 mA • "0" to "1", max. 100 μs • "1" to "0", max. 500 μs	-	
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 500 µs		
• "0" to "1", max. 100 μs • "1" to "0", max. 500 μs Parallel switching of two outputs 500 μs	-	0.5 mA
• "1" to "0", max. 500 μs Parallel switching of two outputs 500 μs		
Parallel switching of two outputs		
		500 µs
Exclusion Data Anna Anna Anna Anna Anna Anna Anna A		Ver
• for logic links Yes	-	
for uprating No		
for redundant control of a load Yes		Yes
Switching frequency		400.11-
with resistive load, max.		
with inductive load, max. 0.5 Hz		
on lamp load, max. 10 Hz		10 HZ
Total current of the outputs	· · · · · · · · · · · · · · · · · · ·	
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. 8 A; see additional description in the manual		δ A; see additional description in the manual
Cable length	-	1 000 m
• shielded, max. 1 000 m	■ snieiueu, max.	

• unshielded. max.	600 m	
Encoder	000 m	
Connectable encoders		
• 2-wire sensor	Yes	
 permissible quiescent current (2-wire sensor), 	1.5 mA	
max.		
Interrupts/diagnostics/status information		
Diagnostics function	No	
Substitute values connectable	No	
Alarms		
Diagnostic alarm	No	
Maintenance interrupt	No	
Hardware interrupt	No	
Diagnoses		
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 channels	No	
between the channels	No	
between the channels, in groups of	8	
between the channels and backplane bus	Yes	
Isolation	707.)/ DO // D	
Isolation tested with	707 V DC (type test)	
Standards, approvals, certificates		
Suitable for safety-related tripping of standard modules	Yes; From FS03	
Highest safety class achievable for safety-related tripping of		
 Performance level according to ISO 13849-1 	PL d	
 Category according to ISO 13849-1 	Cat. 3	
 SILCL according to IEC 62061 	SILCL 2	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-30 °C; from FS04	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-30 °C; from FS04	
 vertical installation, max. 	40 °C	
Altitude during operation relating to sea level		
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	
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	
1000.		
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