SIEMENS

Data sheet

6ES7522-1BL01-0AB0



SIMATIC S7-1500, digital output module DQ 32x24V DC/0.5A HF; 32 channels in groups of 8; 4 A per group; single-channel diagnostics; substitute value, switching cycle counter for connected actuators. the module supports the safety-oriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 3 / PL d according to EN ISO 13849-1:2015. front connector (screw terminals or push-in) to be ordered separately

Figure similar

General Information Product type designation Product type designation Product type designation Product function • I&M data • Isochronous mode • Prioritized startup Product function • I&M data • Isochronous mode • Prioritized startup Product function • Profit Startup Profit S		
HW functional status	General information	
Firmware version V1.1.0 Product function • I&M data Yes: I&M0 to I&M3 • Isochronous mode Yes • Prioritized startup Yes Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 Tonfigurable/integrated from version • STEP 7 TiA Portal configurable/integrated from version • STEP 7 Tonfigurable/integrated from version • PROFIBUS from GSD version/GSD revision • PWM • DQ Yes • DQ Yes • DQ With energy-saving function • No • Oversampling • No • Oversampling • No • Integrated operating cycle counter Ves Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V Reverse polarity protection Input current Current consumption, max. output voltage / header Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital output Transistor Number of digital outputs 9 Yes	Product type designation	DQ 32x24VDC/0.5A HF
Product function I MM data Yes; I&M0 to I&M3 I socknonous mode Yes Prioritized startup Yes Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 Ton Fortal configurable/integrated from version STEP 7 Configurable/integrated from version V5.5 SP3 /- PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision POperating mode DQ Yes DQ with energy-saving function PPWM No Cam control (switching at comparison values) No Oversampling No No Oversampling No No Integrated operating cycle counter Yes Supply voltago Rated value (DC) permissible range, lower limit (DC) 19.2 V permissible range, lower limit (DC) 28.8 V Reverse polarity protection Tyes; through internal protection with 7 A per group Imput current Current consumption, max. 60 mA output voltage / header Rated value (DC) Power Ioss Power Ioss, Vp. 3.5 W Digital outputs Type of digital output Number of digital output Transistor Number of digital outputs 32 Current-sourcing Yes	HW functional status	From FS02
■ 18M data	Firmware version	V1.1.0
■ Isochronous mode ■ Prioritized startup Engineering with ■ STEP 7 TIA Portal configurable/integrated from version ■ STEP 7 TIA Portal configurable/integrated from version ■ STEP 7 TIA Portal configurable/integrated from version ■ STEP 7 Too figurable/integrated from version ■ PROFIBUS from GSD version/GSD revision ■ DQ ■ PROFIBUS from GSD version/GSD revision ■ DQ ■ Yes ■ DQ with energy-saving function ■ PWM ■ Oam control (switching at comparison values) ■ Oversampling ■ No ■ Oversampling ■ No ■ No ■ Oversampling ■ No ■ Integrated operating cycle counter ■ Yes Supply voltage Rated value (DC) ■ 24 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. ■ On MA Output voltage / header Rated value (DC) ■ 24 V Power Rated value (DC) ■ 24 V Power Power available from the backplane bus ■ 1.1 W Power loss. typ. Power loss, typ. 1.1 W Power loss, typ. 1.2 V 1.3 SW Digital outputs Type of digital outputs Type of digital outputs Type of digital outputs 32 Current-sourcing Yes	Product function	
Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 ton Fortal configurable/integrated from version • STEP 7 configurable/integrated from version • PROFIBUS from GSD version/GSD revision • PROFINET from GSD version/GSD revision • PROFINET from GSD version/GSD revision • PROFINET from GSD version/GSD revision • DO with energy-saving function • DO with energy-saving function • PWM • Cam control (switching at comparison values) • Oversampling • No • Integrated operating cycle counter Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. output voltage / header Rated value (DC) Power Power available from the backplane bus Power loss, typ. Power loss, typ. 1,1 W Power loss, typ. 1,2 Current-sourcing Yes Current-sourcing Yes Current-sourcing Yes Current-sourcing Yes		Yes; I&M0 to I&M3
Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision V2.3 /- Operating mode DO Yes DO With energy-saving function PWM No Cam control (switching at comparison values) Oversampling No No Integrated operating cycle counter Yes Integrated operating cycle counter Yes Supply voltage Rated value (DC) 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. 60 mA Output voltage / header Rated value (DC) Power Power available from the backplane bus Power loss, typ. 3.5 W Digital outputs Type of digital outputs Type of digital outputs Type of digital outputs Type of digital outputs Supple Suppression Supple Suppression Yes Supple Yes	 Isochronous mode 	Yes
STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version PROFIBUS from GSD vers	Prioritized startup	Yes
STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUT from GSD version/GSD revision DQ Ves DQ Yes DQ with energy-saving function PWM No Cam control (switching at comparison values) MSO MSO MSO No Integrated operating cycle counter Supply voltage Rated value (DC) Permissible range, upper limit (DC) Permissible ra	Engineering with	
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PROFINET from GSD version/GSD revision Operating mode DQ Yes DQ with energy-saving function No Cam control (switching at comparison values) No Oversampling MSO Integrated operating cycle counter Rated value (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Permissible range, lower limit	 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
Operating mode • DQ Yes • DQ with energy-saving function No • PWM No • Cam control (switching at comparison values) No • Oversampling No • MSO Yes • Integrated operating cycle counter 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. 60 mA output voltage / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes	 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
DQ Yes DQ with energy-saving function PWM No Cam control (switching at comparison values) Oversampling No MSO Yes Integrated operating cycle counter 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. 60 mA Output voltage / header Rated value (DC) 24 V Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 2 Current-sourcing Yes	 PROFINET from GSD version/GSD revision 	V2.3 / -
DQ with energy-saving function PWM No Cam control (switching at comparison values) No Oversampling No MSO Pes Integrated operating cycle counter Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Power Current consumption, max. 60 mA Output voltage / header Rated value (DC) Power Power loss Power loss, typ. 3.5 W Digital outputs Transistor Number of digital output Transistor Number of digital outputs 2 Current-sourcing Yes	Operating mode	
PWM Cam control (switching at comparison values) Coversampling No MSO Integrated operating cycle counter Supply voltage Rated value (DC) 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. Current consumption, max. Current consumption, max. Current consumption max. So mA So mA Solution Power Power Power available from the backplane bus Power loss Power loss Power loss, typ. Digital outputs Type of digital output Transistor Number of digital outputs Current-sourcing Yes	• DQ	Yes
Cam control (switching at comparison values) Oversampling No MSO Yes Integrated operating cycle counter Yes Supply voltage Rated value (DC) 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 cutput voltage / header Rated value (DC) Power Power variable from the backplane bus 1.1 W Power loss Power loss, typ. Digital outputs Type of digital output Number of digital outputs Current-sourcing Yes Current-sourcing Yes	 DQ with energy-saving function 	No
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Integrated operating cycle counter 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. 60 mA output voltage / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes	 Cam control (switching at comparison values) 	No
• Integrated operating cycle counter 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. 60 mA output voltage / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs Current-sourcing Yes	 Oversampling 	No
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Permissible range, upper limit (DC) Permissib	• MSO	Yes
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Current consumption, max. 60 mA output voltage / header Rated value (DC) Power Power available from the backplane bus Power loss Power loss, typ. Digital outputs Type of digital output Number of digital outputs Current-sourcing 24 V Tansistor Number of digital outputs Current-sourcing Yes	 Integrated operating cycle counter 	Yes
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 / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Number of digital outputs Current-sourcing Yes	Supply voltage	
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 / header Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss, typ. Digital outputs Type of digital output Number of digital outputs Current-sourcing Yes	Rated value (DC)	24 V
Reverse polarity protection Input current Current consumption, max. 60 mA output voltage / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. Digital outputs Type of digital output Number of digital outputs Current-sourcing Yes; through internal protection with 7 A per group Tensus 10 mA 11 W 11 Transistor 12 Transistor 13 2 Current-sourcing Yes	permissible range, lower limit (DC)	19.2 V
Input current Current consumption, max. 60 mA output voltage / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes	permissible range, upper limit (DC)	28.8 V
Current consumption, max. 60 mA output voltage / header Rated value (DC) Power Power available from the backplane bus Power loss Power loss, typ. Digital outputs Type of digital output Number of digital outputs Current-sourcing 60 mA 60 mA 60 mA 60 mA 60 mA 74 V Power loss 1.1 W Power loss 1.2 W 1.3 Explanation of logical outputs Transistor Number of digital outputs Yes	Reverse polarity protection	Yes; through internal protection with 7 A per group
Rated value (DC) Power Power available from the backplane bus Power loss Power loss, typ. Digital outputs Type of digital output Number of digital outputs Current-sourcing Yes	Input current	
Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Number of digital outputs Current-sourcing Yes	Current consumption, max.	60 mA
Power available from the backplane bus Power loss Power loss, typ. Digital outputs Type of digital output Number of digital outputs Current-sourcing Yes	output voltage / header	
Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes	Rated value (DC)	24 V
Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes	Power	
Power loss Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes	Power available from the backplane bus	1.1 W
Power loss, typ. 3.5 W Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes		
Digital outputs Type of digital output Transistor Number of digital outputs 32 Current-sourcing Yes		3.5 W
Type of digital output Number of digital outputs Current-sourcing Transistor Yes		
Number of digital outputs 32 Current-sourcing Yes		Transistor
Current-sourcing Yes		
	Digital outputs, parameterizable	Yes

Short-circuit protection	Yes; Clocked electronically
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	
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 μs
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.	100 Hz
with inductive load, max.	0.5 Hz; According to IEC 60947-5-1, DC-13
• on lamp load, max.	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. 	16 A; see additional description in the manual
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Isochronous mode	
	70 μs
Execution and activation time (TCO), min.	70 μs 250 μs
Execution and activation time (TCO), min. Bus cycle time (TDP), min.	70 μs 250 μs
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information	250 μs
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function	250 μs Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information	250 μs
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms	250 μs Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm	250 μs Yes Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt	250 μs Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses	250 μs Yes Yes Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage	250 μs Yes Yes Yes Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break	Yes Yes Yes Yes Yes Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit	Yes Yes Yes Yes Yes Yes Yes Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error	250 μs Yes Yes Yes Yes Yes Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED)	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Channel status display	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation	Yes
Execution and activation time (TCO), min. Bus cycle time (TDP), min. Interrupts/diagnostics/status information Diagnostics function Substitute values connectable Alarms • Diagnostic alarm • Maintenance interrupt Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Group error Diagnostics indication LED • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics	Yes

 between the channels and backplane bus 	Yes	
Isolation		
Isolation tested with	707 V DC (type test)	
Standards, approvals, certificates		
Suitable for safety functions	No	
Suitable for safety-related tripping of standard modules	Yes; From FS02	
Highest safety class achievable for safety-related tripping of standard modules		
 Performance level according to ISO 13849-1 	PL d	
 Category according to ISO 13849-1 	Cat. 3	
• SIL acc. to IEC 62061	SIL 2	
Ambient conditions		
Ambient temperature during operation		
 horizontal installation, min. 	-30 °C; From FS03	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-30 °C; From FS03	
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	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	280 g	

last modified:

8/16/2023