Data sheet 6ES7522-5EH00-0AB0



SIMATIC S7-1500, digital output module DQ16x24..48VUC/125V DC/0.5A ST; 16 channels in groups of 1; 0.5 A per group; substitute value: observe derating 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

General information	
Product type designation	DQ 16x24 48 V UC/125 V DC/0.5 A ST
HW functional status	FS02
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 SP1 / -
 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	
• 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	No
output voltage / header	
Rated value (DC)	24 V; 48 V, 125 V
Rated value (AC)	24 V; 48 V (50 - 60 Hz)
Power	
Power available from the backplane bus	2 W
Power loss	
Power loss, typ.	3.8 W
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	16
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Limitation of inductive shutdown voltage to	200 V (suppressor diode)
Controlling a digital input	Yes
Switching capacity of the outputs	
 with resistive load, max. 	0.5 A
on lamp load, max.	40 W; At 125 V DC, 10 W at 48 V UC, 5 W at 24 V UC

Output voltage		
Output voltage	I+(10V)	
for signal "1", min. Output current	L+ (-1.0 V)	
• for signal "1" rated value	0.5 A	
for signal "1" permissible range, max.	0.6 A	
Output delay with resistive load	0.0 A	
• "0" to "1", max.	5 ms	
• "1" to "0", max.	5 ms	
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. 	25 Hz	
 with inductive load, max. 	0.5 Hz	
● on lamp load, max.	10 Hz	
Total current of the outputs		
 Current per channel, max. 	0.5 A	
 Current per group, max. 	0.5 A	
Current per module, max.	8 A	
Cable length	4 000	
shielded, max.	1 000 m	
• unshielded, max.	600 m	
Interrupts/diagnostics/status information		
Diagnostics function	No	
Substitute values connectable	Yes	
Alarms		
Diagnostic alarm	No 	
Maintenance interrupt	No	
Diagnoses	No	
Monitoring the supply voltageWire-break	No No	
Short-circuit	No	
Diagnostics indication LED	INU	
• 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	
Potential separation		
Potential separation channels		
between the channels	Yes	
between the channels, in groups of	1	
between the channels and backplane bus	Yes	
Permissible potential difference		
between different circuits	125 V DC/48 V AC	
Isolation		
Isolation tested with	2 000 V DC	
	2 000 V DO	
Standards, approvals, certificates		
Suitable for safety related trianing of standard modules	No Vacuation From FCCC	
Suitable for safety-related tripping of standard modules	Yes; From FS02	
Highest safety class achievable for safety-related tripping of		
 Performance level according to ISO 13849-1 Category according to ISO 13849-1 	PL d Cat. 3	
SIL acc. to IEC 62061	SIL 2	
	OIL 2	
Ambient conditions		
Ambient temperature during operation	0.00	
horizontal installation, min.	0 °C	
horizontal installation, max. vertical installation, min	60 °C	
 vertical installation, min. 	0 °C	
 vertical installation, max. 	40 °C	

Dimensions	
Width	35 mm
Height Depth	147 mm
Depth	129 mm
Weights	
Weight, approx.	230 g

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