Product data sheet 6ES7522-1BH00-0AB0



SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 16 X 24VDC/0.5A; 16 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; DIAGNOSIS; SUBSTITUTE VALUE

General information		
Hardware product version	E01	
Product function		
I&M data	Yes; IM0 to IM3	
Engineering with		
STEP 7 TIA Portal can be configured/integrated as of version	V12.0 / V12.0	
STEP 7 can be configured/integrated as of version	as of V5.5 SP3 / -	
Supply voltage		
Rated voltage/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.	30 mA	
Output voltage		
Rated value (DC)	24 V	
Power		
Power available from the backplane bus	1.1 W	

Power losses		
Power loss, typ.	2 W	
Digital outputs		
Number/binary outputs	16	
Functionality/short-circuit strength	Yes ; Clocked electronically	
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 2 outputs		
for logic links	Yes	
for increased power	No	
for redundant control of a load	Yes	
Switching frequency		
with resistive load, max.	100 Hz	
with inductive load, max.	0.5 Hz ; to IEC 947-5-1, DC13	
on lamp load, max.	10 Hz	
Aggregate current of the outputs		
Max. current per channel	0.5 A; (see additional description in the manual)	
Max. current per group	4 A; (see additional description in the manual)	
Max. current per module	8 A; (see additional description in the manual)	
Cable length		
Cable length, shielded, max.	1000 m	
Cable length unshielded, max.	600 m	
Isochronous mode		



Isochronous operation (application synchronized up to terminal)	Yes	
Execution and activation time (TCO), min.	70 µs	
	250 μs	
Bus cycle time (TDP), min.	230 μs	
Interrupts/diagnostics/status information		
Substitute values connectable	Yes	
Alarms		
Diagnostic alarm	Yes	
Diagnostic messages		
Diagnostics	Yes	
Monitoring the supply voltage	Yes	
Wire break	No	
Short circuit	Yes	
Fuse blown	No	
Diagnostics indication LED		
RUN LED	Yes ; Green LED	
ERROR LED	Yes ; Red LED	
Monitoring the supply voltage	Yes ; Green LED	
Channel status display	Yes ; Green LED	
for channel diagnostics	No	
for module diagnostics	Yes ; Red LED	
Galvanic isolation		
Electrical isolation channels		
between the channels	No	
between the channels, in groups of	8	
between the channels and the backplane bus	Yes	
Isolation		
Isolation checked with	707 V DC (type test)	
Decentralized operation		
Supports fast startup	Yes ; 500 ms	
Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weight		
Weight, approx.	230 g	
Status	Apr 5, 2013	

