## **SIEMENS**

## Product data sheet 6ES7522-1BF00-0AB0



SIMATIC S7-1500, DIGITAL OUTPUT MODULE DQ 8 X 24VDC,2A; 8 CHANNELS IN GROUPS OF 8, 8 A PER GROUP; DIAGNOSIS; SUBSTITUTE VALUE

General information	
Hardware product version	E01
Firmware version	V2.0.0
Product function	
I&M data	Yes ; I&M0 to I&M3
Engineering with	
STEP 7 TIA Portal configurable/integrated as of version	V12 / V12
STEP 7 configurable/integrated as of version	V5.5 SP3 / -
PROFIBUS as of GSD version/GSD revision	V1.0 / V5.1
PROFINET as of GSD version/GSD revision	V2.3 / -
Operating mode	
MSO	Yes
Supply voltage	
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 10 A per group
Input current	
Current consumption, max.	40 mA; 20 mA per group, no output is activated.

Output voltage	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	0.9 W
Power loss	
Power loss, typ.	5.6 W
Digital outputs	
Number of digital outputs	8
Current-sourcing	Yes
Short-circuit protection	Yes ; Clocked electronically
Response threshold, typ.	3 A
Limitation of inductive shutdown voltage to	-17 V
Controlling a digital input	Yes
Switching capacity of the outputs	_
with resistive load, max.	2 A
on lamp load, max.	10 W
Load resistance range	
lower limit	12 Ω
upper limit	4 kΩ
Output voltage	_
for signal "1", min.	L+ (-0.8 V)
Output current	_
for signal "1" rated value	2 A
for signal "1" permissible range, max.	2.4 A
	2.4 A
for signal "0" residual current, max.	0.5 mA
for signal "0" residual current, max.  Output delay with resistive load	
Output delay with resistive load	0.5 mA
Output delay with resistive load	0.5 mA 100 μs
Output delay with resistive load "0" to "1", max. "1" to "0", max.	0.5 mA 100 μs
Output delay with resistive load "0" to "1", max. "1" to "0", max.  Parallel switching of 2 outputs	0.5 mA  100 μs  500 μs
Output delay with resistive load "0" to "1", max. "1" to "0", max.  Parallel switching of 2 outputs for logic links	0.5 mA  100 μs  500 μs  Yes
Output delay with resistive load  "0" to "1", max.  "1" to "0", max.  Parallel switching of 2 outputs  for logic links  for uprating	0.5 mA  100 μs  500 μs  Yes  No
Output delay with resistive load  "0" to "1", max.  "1" to "0", max.  Parallel switching of 2 outputs  for logic links  for uprating  for redundant control of a load	0.5 mA  100 μs  500 μs  Yes  No
Output delay with resistive load  "0" to "1", max.  "1" to "0", max.  Parallel switching of 2 outputs  for logic links  for uprating  for redundant control of a load  Switching frequency	0.5 mA  100 μs  500 μs  Yes  No  Yes
Output delay with resistive load  "0" to "1", max.  "1" to "0", max.  Parallel switching of 2 outputs  for logic links  for uprating  for redundant control of a load  Switching frequency  with resistive load, max.	0.5 mA  100 μs  500 μs  Yes  No Yes
Output delay with resistive load  "0" to "1", max.  "1" to "0", max.  Parallel switching of 2 outputs  for logic links  for uprating  for redundant control of a load  Switching frequency  with resistive load, max.  with inductive load, max.	0.5 mA  100 μs  500 μs  Yes  No  Yes  100 Hz  0.5 Hz; to IEC 947-5-1, DC-13

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Max. current per group	8 A ; see additional description in the manual	
Max. current per module	16 A; see additional description in the manual	
Cable length		
Cable length, shielded, max.	1000 m	
Cable length unshielded, max.	600 m	
Isochronous mode		
Isochronous mode (application synchronized up to terminal)	No	
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 (PWR-LED)	Yes ; Green LED	
Channel status display	Yes ; Green LED	
for channel diagnostics	Yes ; Red LED	
for module diagnostics	Yes ; Red LED	
Galvanic isolation		
Galvanic isolation channels		
between the channels	No	
between the channels, in groups of	4	
between the channels and the 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)	
Decentralized operation		
Prioritized startup	Yes	
Dimensions		
Width	35 mm	
Height	147 mm	

Depth	129 mm
Weights	
Weight, approx.	240 g
Status	Jul 28, 2014