



SIMATIC S7-300, DIGITAL OUTPUT SM 322,  
OPTICALLY ISOLATED, 32DO, 24V DC, 0.5A,  
1 X 40 PIN,  
SUM OF OUTPUT CURRENTS 4A/GROUP (16A/MODULE)

<b>Supply voltage</b>	
<b>Load voltage L+</b>	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
<b>Input current</b>	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	110 mA
<b>Power losses</b>	
Power loss, typ.	6.6 W
<b>Digital outputs</b>	
Number of digital outputs	32
Limitation of inductive shutdown voltage to	L+ (-53 V)
<b>Switching capacity of the outputs</b>	
Lamp load, max.	5 W
<b>Load resistance range</b>	
lower limit	48 Ω
upper limit	4 kΩ

<b>Output voltage</b>	
for signal "1", min.	L+ (-0.8 V)
<b>Output current</b>	
for signal "1" rated value	0.5 A
for signal "1" permissible range for 0 to 40 °C, max.	0.6 A
for signal "1" minimum load current	5 mA
for signal "0" residual current, max.	0.5 mA
<b>Switching frequency</b>	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	10 Hz
<b>Aggregate current of outputs (per group)</b>	
<b>horizontal installation</b>	
up to 40 °C, max.	4 A
up to 60 °C, max.	3 A
<b>vertical installation</b>	
up to 40 °C, max.	2 A
<b>Cable length</b>	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
Diagnostic alarm	No
<b>Diagnostic messages</b>	
Diagnostics	No
Wire break	No
Short circuit	No
Missing load voltage	No
<b>Diagnostics indication LED</b>	
Rated load voltage PWR (green)	No
Fuse OK FSG (green)	No
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital outputs</b>	
between the channels, in groups of	8
between the channels and the backplane bus	Yes ; Optocoupler
<b>Isolation</b>	
Isolation checked with	500 V DC
<b>Connection method</b>	

<b>required front connector</b>	40-pin
<b>Dimensions</b>	
<b>Width</b>	40 mm
<b>Height</b>	125 mm
<b>Depth</b>	120 mm
<b>Weights</b>	
<b>Weight, approx.</b>	260 g
Status	Oct 10, 2013