



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)

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	110 mA
Power loss	
Power loss, typ.	6.6 W
Digital outputs	
Number of digital outputs	32
Limitation of inductive shutdown voltage to	L+ (-53 V)
Switching capacity of the outputs	
Lamp load, max.	5 W
Load resistance range	
lower limit	48 Ω
upper limit	4 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 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
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
up to 40 °C, max.	4 A
up to 60 °C, max.	3 A
vertical installation	
up to 40 °C, max.	2 A
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	No
Diagnostic messages	
Diagnostics	No
Wire-break	No
Short-circuit	No
missing load voltage	No
Diagnostics indication LED	
Rated load voltage PWR (green)	No
Fuse OK FSG (green)	No
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels, in groups of	8
between the channels and the backplane bus	Yes ; Optocoupler
Isolation	
Isolation tested with	500 V DC
Connection method	

required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g
Status	Jul 29, 2014