

SIMATIC S7-300, DIGITAL OUTPUT SM 322, OPTICALLY ISOLATED, 8 DO, DC 48-125V, 1.5A, 1 X 20 PIN



Figure similar

Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	48 V; 48 V DC to 125 V DC
<ul style="list-style-type: none"> <li>permissible range, lower limit (DC)</li> </ul>	40 V
<ul style="list-style-type: none"> <li>permissible range, upper limit (DC)</li> </ul>	140 V
Input current	
from load voltage L+ (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7.2 W
Digital outputs	
Number of digital outputs	8
Limitation of inductive shutdown voltage to	M (-1 V)
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	15 W; 15 W (48 V) or 40 W (125 V)
Output voltage	

• for signal "1", min.	L+ (-1.2 V)
<b>Output current</b>	
• for signal "1" rated value	1.5 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	3 A; for 10 ms
• for signal "0" residual current, max.	0.5 mA
<b>Switching frequency</b>	
• with resistive load, max.	25 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
<b>horizontal installation</b>	
— up to 40 °C, max.	6 A
— up to 60 °C, max.	3 A
<b>vertical installation</b>	
— up to 40 °C, max.	4 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	No
<b>Alarms</b>	
• Diagnostic alarm	No
<b>Diagnostic messages</b>	
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
• missing load voltage	No
<b>Diagnostics indication LED</b>	
• Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• between the channels	Yes
• between the channels, in groups of	4
• between the channels and backplane bus	Yes; Optocoupler
<b>Permissible potential difference</b>	
between different circuits	146 V DC/132 V AC

### Isolation

Isolation tested with	1500 V AC
-----------------------	-----------

### Connection method

required front connector	20-pin
--------------------------	--------

### Dimensions

Width	40 mm
-------	-------

Height	125 mm
--------	--------

Depth	120 mm
-------	--------

### Weights

Weight, approx.	250 g
-----------------	-------

<b>last modified:</b>	12/10/2016
-----------------------	------------