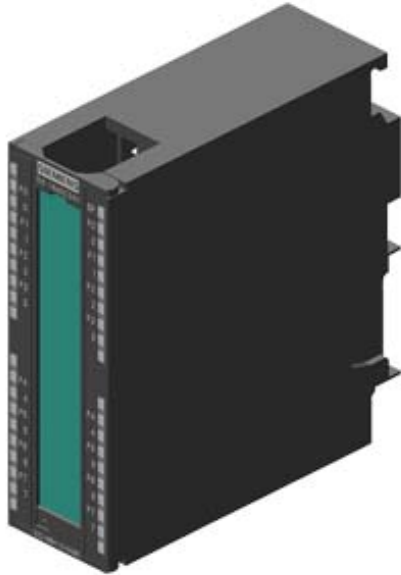


SIMATIC S7/PCS7, SM 322 DIGITAL OUTPUT MODULE, 16 DO, DC 24 V / 0,5A, CAPABLE OF DIAGNOSTICS, WIRE BREAK DETECTION TO 0 AND 1 SIGNAL, 1 X 40-PIN, INTERFACE MODULE IM 153-X HF NECESSARY



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.	100 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	6 W
Digital outputs	
Number of digital outputs	16
Limitation of inductive shutdown voltage to	L+ (-68 V)
Switching capacity of the outputs	
• on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω

• upper limit	4 k $\Omega$
<b>Output voltage</b>	
• for signal "1", min.	L+ (-0.7 V)
<b>Output current</b>	
• for signal "1" rated value	0.5 A
• for signal "1" permissible range, min.	5 mA
• for signal "1" permissible range, max.	0.6 A
• for signal "0" residual current, max.	0.7 mA
<b>Switching frequency</b>	
• with resistive load, max.	100 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
horizontal installation	
— up to 60 °C, max.	2 A
vertical installation	
— up to 40 °C, max.	2 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	Yes
<b>Alarms</b>	
• Diagnostic alarm	Yes
<b>Diagnostic messages</b>	
• Wire-break	Yes
• Short-circuit	Yes
• missing load voltage	Yes
<b>Diagnostics indication LED</b>	
• Rated load voltage PWR (green)	No
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
• Channel fault indicator F (red)	Yes
<b>Potential separation</b>	
Potential separation digital outputs	
• between the channels	No
• between the channels, in groups of	4
• between the channels and backplane bus	Yes
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Connection method</b>	

required front connector	1x 40-pin
<b>Dimensions</b>	
Width	40 mm
Height	125 mm
Depth	120 mm
<b>Weights</b>	
Weight, approx.	350 g
<b>last modified:</b>	03/24/2017