



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 losses

Power loss, typ.	6 W
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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
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Load resistance range

• lower limit	48 Ω
• upper limit	4 k Ω

Output voltage

• for signal "1", min.	L+ (-0.7 V)
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Output current

• 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
Switching frequency	
• with resistive load, max.	100 Hz
• on lamp load, max.	10 Hz
horizontal installation	
— up to 60 °C, max.	2 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
• shielded, max.	1 000 m
• Unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostics	Yes
• Wire break	Yes
• Short circuit	Yes
• Missing load voltage	Yes
Diagnostics indication LED	
• Rated load voltage PWR (green)	No
Galvanic isolation	
Galvanic isolation digital outputs	
• between the channels, in groups of	4
• between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	500 V DC
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	350 g
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