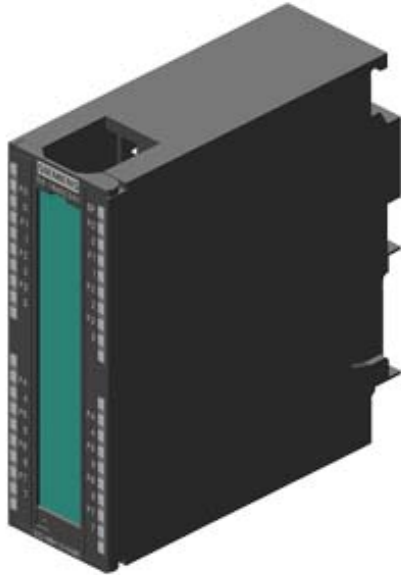


SIMATIC S7/PCS7, digital output SM 322, 16 DO; 24 V DC / 0.5 A, diagnostics-capable, wire break detection with 0 and 1 signal, 1 x 40-pole, interface IM 153-X HF required



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 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.7 V)
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
Total current of the outputs (per group)	
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	
Diagnostics function	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Wire-break	Yes
• Short-circuit	Yes
• missing load voltage	Yes
Diagnostics indication LED	
• Rated load voltage PWR (green)	No
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
• Channel fault indicator F (red)	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	No
• between the channels, in groups of	4
• between the channels and backplane bus	Yes
Isolation	
Isolation tested 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
-----------------	-------

last modified: 08/27/2019