

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	
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	
Cable length, shielded, max.	1000 m
Cable length 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 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
Status	Jul 21, 2014