

SIMATIC DP, Pneumatic interface for ET 200 PRO, 16 DO pneumatics for coupling with Festo valve terminal CPV-14; incl. bus module



Supply voltage

Load voltage 2L+

• Rated value (DC)	24 V
• Short-circuit protection	Yes
• Reverse polarity protection	Yes

Input current

from load voltage 2L+, max.	370 mA; Including valves
from backplane bus 3.3 V DC, max.	25 mA

Power loss

Power loss, typ.	3.7 W
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Address area

Address space per module

• Address space per module, max.	2 byte
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Digital outputs

Number of digital outputs	16
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Load resistance range

• lower limit	500 Ω
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• upper limit	2 500 Ω
Output current	
• for signal "1" rated value	16 mA
• for signal "1" permissible range, min.	14 mA
• for signal "1" permissible range, max.	20 mA
Switching frequency	
• with inductive load, max.	20 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 55 °C, max.	330 mA; only up to 50 °C, limited by valves
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
Pneumatics	
Number of connectable valves, max.	16
permissible working pressure, min.	3 bar
permissible working pressure, max.	8 bar
Rated flow rate	800 l/min
Valve switching times from "0" to "1"	24 ms
Valve switching times from "1" to "0"	30 ms
Parameter	
Remark	Diagnosis load voltage 2L+
Potential separation	
between backplane bus and all other circuit components	Yes
Potential separation digital outputs	
• between the channels and backplane bus	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes
Highest safety class achievable for safety-related tripping of standard modules	
• Performance level according to ISO 13849-1	PL d

- Category according to ISO 13849-1
- SILCL according to IEC 62061

Cat. 3
SILCL 2

Dimensions

Width	120 mm
Height	152 mm
Depth	47 mm

last modified: 05/13/2020