SIEMENS

Data sheet

6ES7148-4EB00-0AA0



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
Address area	
Address space per module	
 Address space per module, max. 	2 byte
Digital outputs	
Number of digital outputs	16
Load resistance range	
lower limit	500 Ω
• 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
Diagnoses	
 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

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permissible working pressure, max.	8 bar	
Rated flow rate	800 I/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 	Cat. 3	
• SIL acc. to IEC 62061	SIL 2	
Dimensions		
Width	120 mm	
Height	152 mm	
Depth	47 mm	

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