

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+	
<ul style="list-style-type: none"> Rated value (DC) Short-circuit protection Reverse polarity protection 	24 V Yes 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	
<ul style="list-style-type: none"> Address space per module, max. 	2 byte
Digital outputs	
Number of digital outputs	16
Load resistance range	
<ul style="list-style-type: none"> lower limit upper limit 	500 Ω 2 500 Ω
Output current	
<ul style="list-style-type: none"> for signal "1" rated value for signal "1" permissible range, min. for signal "1" permissible range, max. 	16 mA 14 mA 20 mA
Switching frequency	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Diagnostic alarm 	Yes
Diagnoses	
<ul style="list-style-type: none"> Diagnostic information readable 	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> Group error SF (red) Status indicator digital output (green) 	Yes 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+
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Potential separation

between backplane bus and all other circuit components	Yes
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Potential separation digital outputs

<ul style="list-style-type: none"> between the channels and backplane bus 	Yes
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Isolation

Isolation tested with	707 V DC (type test)
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Standards, approvals, certificates

Suitable for safety-related tripping of standard modules	Yes
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Highest safety class achievable for safety-related tripping of standard modules

<ul style="list-style-type: none"> Performance level according to ISO 13849-1 Category according to ISO 13849-1 SIL acc. to IEC 62061 remark on safety-oriented shutdown 	PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
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Dimensions

Width	120 mm
Height	152 mm
Depth	47 mm

Classifications

	Version	Classification
eClass	14	27-24-26-13
eClass	12	27-24-26-13
eClass	9.1	27-24-26-13
eClass	9	27-24-26-13
eClass	8	27-24-26-13
eClass	7.1	27-24-26-13
eClass	6	27-24-26-13
ETIM	10	EC002634
ETIM	9	EC002634
ETIM	8	EC002634
ETIM	7	EC002634
IDEA	4	3561
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



[Miscellaneous](#)

[Manufacturer Declaration](#)



General Product Approval | **Maritime application**



[NK / Nippon Kaiji Kyokai](#)

Maritime application



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

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