SIEMENS

Data sheet

6ES7288-2DT16-0AA0

SIMATIC S7-200 SMART, Digital I/O SM DT16, 8DI/8DO, 8 DI 24 V DC, Sink/Source, 8 DO, Transistor 0.75A

General information	
Product type designation	SM DT16, DI 8x24 V DC, DQ 8x24 V DC/0.75 A
Supply voltage	5 5 5, 51 O/E 1 7 5 5, 5 4 O/E 1 7 5 5/0.10 /1
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, lower limit (DC)	28.8 V
Input current	
from backplane bus 5 V DC, typ.	115 mA; For 5 V DC from CPU module
Digital inputs	113 find, 1 of 3 v Bo from of a module
Number of digital inputs	8
• in groups of	2
Parallel switching of inputs	Yes
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	100
horizontal installation	
— up to 50 °C, max.	8
vertical installation	
— up to 40 °C, max.	8
Input voltage	
Type of input voltage	DC
Rated value (DC)	24 V
• for signal "0"	< 5 V DC
• for signal "1"	+15 to +30 V
Input current	
for signal "0", max. (permissible quiescent current)	1 mA
• for signal "1", min.	2.5 mA
• for signal "1", max.	5 mA
• for signal "1", typ.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	200 μs
— at "1" to "0", max.	200 μs
Cable length	
• shielded, max.	500 m
• unshielded, max.	300 m
Digital outputs	
Number of digital outputs	8
• in groups of	2
Current-sinking	No
Current-sourcing	Yes
Short-circuit protection	No
Switching capacity of the outputs	
with resistive load, max.	0.75 A
• on lamp load, max.	5 W
Output voltage	
Rated value (DC)	24 V
• for signal "0", max.	0.1 V
• for signal "1", min.	20 V
• for signal "1", max.	28.8 V; max. value is equal to feed L+
Output current	
• for signal "1" rated value	0.75 A

Parallel switching of two outputs of ro logic links of ro redundant control of a load of rotation	Output delay with registive load	
Parallel switching of two outputs • for logic links • for uprating • for redundant control of a load • for uprating • for redundant control of a load • for uprating • for redundant control of a load • for uprating • for redundant control of a load • Yes; only outputs of the same group all mounting positions — up to 40 °C, max. • JA borizontal installation — up to 40 °C, max. • yerical installation — up to 40 °C, max. • JA all other mounting positions — up to 40 °C, max. • JA all other mounting positions — up to 40 °C, max. • JA all other mounting positions — up to 40 °C, max. • JA all other mounting positions — up to 40 °C, max. • JA all other mounting positions — up to 40 °C, max. • Ves • for status of the outputs • For status of the outputs • Ves • for status of the outputs • Determine teaperation digital inputs • between the channels • Yes; Optocoupler Potential separation digital outputs • between the channels • Ves; Optocoupler Potential separation digital outputs • between the channels • Ves; Optocoupler Ves; Optocoupler	Output delay with resistive load	50 up
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Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 — Test voltage at air discharge — Test voltage at contact discharge — Test voltage at contact discharge — Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on supply lines acc. to IEC 61000-4-5 — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation with 1kHz in the range 9 kHz to 80 MHz	EMC	
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- Test voltage at air discharge - Test voltage at contact discharge - Test voltage at contact discharge - Test voltage at contact discharge - Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 - Frequency range of the RF radiation - Frequency interference - Frequency interference - Frequency radiation radiation with 1kHz in the range 9 kHz to 80 MHz		Yes; ±4 kV contact discharge (to IEC 801-2/IEC 1000-4-2; ESD), ±8 kV air
Interference immunity against high-frequency electromagnetic fields Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on signal cables acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity against voltage on supply cables — Test voltage on signal cables >30m Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Interference immunity against high frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz	electricity acc. to IEC 61000-4-2	discharge (to IEC 801-2/IEC 1000-4-2; ESD)
Interference immunity against high-frequency electromagnetic fields • Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 — Frequency range of the RF radiation 80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 3V/m) Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity against voltage surge • Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000-4-5 • asymmetric interference — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high-frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz	Test voltage at air discharge	8 kV
Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 — Frequency range of the RF radiation Trequency range of the RF radiation 80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(in range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 3V/m) Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on signal cables acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high-frequency current feed acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Yes 80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(in range of 87 MHz to 180 MHz and 470 MHz to 790 3V/m) 80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(in range of 87 MHz to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(in range of 87 MHz to 2.0 GHz, 1 V		
acc. to IEC 61000-4-3 — Frequency range of the RF radiation 80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 3V/m) Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4-4 • Interference immunity on signal cables acc. to IEC 61000-4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000-4-5 • asymmetric interference — Test voltage on signal cables >30m 2 kV Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz		
- Frequency range of the RF radiation 80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 3V/m) Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-4.4 • Interference immunity against voltage surge • Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000-4.5 • asymmetric interference - Test voltage on signal cables >30m Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high-frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 - Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz		Yes
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Interference immunity against voltage surge Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity on supply cables Test voltage on signal cables >30m Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 1 kV	Interference immunity to cable-borne interference	
Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000- 4-5 Interference immunity on supply lines acc. to IEC 61000- 4-5 Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Yes; With upstream protective element 1 kV 10 V		Yes; 2 kV acc. to IEC 61000-4-4, burst
Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity on supply lines acc. to IEC 61000-4-5 Interference immunity against conducted variables		Yes; ±2 kV acc. to IEC 61000-4-4, Burst
Interference immunity on supply lines acc. to IEC 61000- 4-5 asymmetric interference — Test voltage on supply cables — Test voltage on signal cables > 30m 2 kV Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Yes; With upstream protective element Yes; With upstream protective element Yes; With upstream protective element 1 kV Yes; With upstream protective element 1 kV 1 by Interference immunity against high-frequency radiation at 1 kHz Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V		
**Strong of the strong of		V Mrs.
— Test voltage on supply cables 2 kV — Test voltage on signal cables >30m 2 kV Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz 2 kV Yes Yes 10 V/m, with 80% amplitude modulation at 1 kHz	4-5	Yes; with upstream protective element
Test voltage on signal cables >30m 2 kV Interference immunity against conducted variable disturbance induced by high-frequency fields Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz 2 kV Yes Yes 10 V/m, with 80% amplitude modulation at 1 kHz	•	2 kV
Interference immunity against conducted variable disturbance induced by high-frequency fields • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency current feed acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Yes Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz		
 Interference immunity against high frequency current feed acc. to IEC 61000-4-6 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Yes Yes Yes Yes 10 V/m, with 80% amplitude modulation at 1 kHz 10 V		
acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz	Interference immunity against high frequency current feed	
in the range 9 kHz to 80 MHz	Interference immunity against high-frequency radiation	Yes; 10 V/m, with 80% amplitude modulation at 1 kHz
		10 V
Emission of radio interference acc. to EN 55 U11	Emission of radio interference acc. to EN 55 011	
• Emission of radio interference Interference emission to EN 50081-2, testing to EN 55011, Class A, Grou	Emission of radio interference	Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1
• Limit class A, for use in industrial areas Yes	Limit class A, for use in industrial areas	
Degree and class of protection	Degree and class of protection	
IP degree of protection IP20	IP degree of protection	IP20
Dimensions	Dimensions	

Width	45 mm
Height	100 mm
Depth	81 mm
Weights	
Weight, approx.	179.7 g

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