SIEMENS

## Data sheet 6ES7288-2QT16-0AA0

| | SIMATIC S7-200 SMART, Digital output EM DT16 16 DO, 24 VDC, Transistor 0.75A |
|---|---|
| **General information** | |
| Product type designation | SM DT16, DQ 16x24 V DC/0.75 A |
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| **Input current** | |
| from backplane bus 5 V DC, typ. | 135 mA |
| **Digital inputs** | |
| Number of digital inputs | 0 |
| **Digital outputs** | |
| Number of digital outputs | 16 |
| ● in groups of | 4 |
| Current-sinking | No |
| Current-sourcing | Yes |
| Short-circuit protection | No |
| Controlling a digital input | Yes |
| 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 DC |
| Output current | |
| ● for signal "1" rated value | 0.75 A |
| ● for signal "1" permissible range, max. | 0.75 A |
| ● for signal "1" permissible range for 0 to 40 °C, max. | 750 mA |
| ● for signal "0" residual current, max. | 10 µA |
| Output delay with resistive load | |
| ● "0" to "1", max. | 50 µs |
| ● "1" to "0", max. | 200 µs |
| Cable length | |
| ● shielded, max. | 500 m |
| ● unshielded, max. | 150 m |
| **Interrupts/diagnostics/status information** | |
| Diagnostics indication LED | |
| ● for status of the outputs | Yes |
| **Potential separation** | |
| Potential separation digital outputs | |
| ● between the channels | Yes; Optocoupler |
| **Isolation** | |
| Isolation tested with | 500 V AC for 1 minute |
| **EMC** | |
| Interference immunity against conducted variable disturbance induced by high-frequency fields | |
| ● Interference immunity against high frequency current feed acc. to IEC 61000-4-6 | Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6) |
| ● Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 | Yes; 10 V/m, with 80% amplitude modulation at 1 kHz |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz | 10 V |
| 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, Group 1 |
| ● Limit class A, for use in industrial areas | Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas. |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| **Standards, approvals, certificates** | |
| CE mark | Yes; CE marking / EC Declaration of Conformity |
| **Ambient conditions** | |
| Free fall | |
| ● Fall height, max. | 0.3 m |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 55 °C |
| ● horizontal installation, min. | 0 °C |
| ● horizontal installation, max. | 55 °C |
| ● vertical installation, min. | 0 °C |
| ● vertical installation, max. | 45 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -40 °C |
| ● max. | 70 °C |
| Relative humidity | |
| ● Operation at 25 °C without condensation, max. | 95 % |
| **Dimensions** | |
| Width | 45 mm |
| Height | 100 mm |
| Depth | 81 mm |
| **Weights** | |
| Weight, approx. | 186 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-04 |
| eClass | 14 | 27-24-22-04 |
| eClass | 12 | 27-24-22-04 |
| eClass | 9.1 | 27-24-22-04 |
| eClass | 9 | 27-24-22-04 |
| eClass | 8 | 27-24-22-04 |
| eClass | 7.1 | 27-24-22-04 |
| eClass | 6 | 27-24-22-04 |
| ETIM | 10 | EC001419 |
| ETIM | 9 | EC001419 |
| ETIM | 8 | EC001419 |
| ETIM | 7 | EC001419 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**

China RoHS

**last modified:** 8/24/2025


Subject to change without notice
© Copyright Siemens