## **Data sheet**

6ES7132-6BF61-0AA0



SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Sink Basic, Sink output (NPN, M-switching), Packing unit: 1 piece, fits to BU-type A0, Colour Code CC01, substitute value output, module diagnostics for: supply voltage

| General information  |  |
|--|--|
| Product type designation   | DQ 8x24VDC/0,5A SNK BA                         |
| HW functional status   | From FS02                                      |
| Firmware version   | V0.0   |
| <ul> <li>FW update possible</li> </ul>                                     | No   |
| usable BaseUnits   | BU type A0                                     |
| Color code for module-specific color identification plate                  | CC01   |
| Product function   |  |
| <ul> <li>I&amp;M data</li> </ul>   | Yes; I&M0 to I&M3                              |
| • Isochronous mode   | No   |
| Engineering with   |  |
| <ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul> | V14  |
| <ul> <li>STEP 7 configurable/integrated from version</li> </ul>            | V5.5 SP3                                       |
| <ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>                 | One GSD file each, Revision 3 and 5 and higher |
| <ul> <li>PROFINET from GSD version/GSD revision</li> </ul>                 | GSDML V2.3                                     |
| Operating mode   |  |
| • DQ   | Yes  |
| <ul> <li>DQ with energy-saving function</li> </ul>                         | No   |
| • PWM  | No   |
| <ul> <li>Oversampling</li> </ul>   | No   |
| • MSO  | No   |
| Redundancy   |  |
| Redundancy capability  | Yes  |
| Supply voltage   |  |
| Rated value (DC)   | 24 V   |
| permissible range, lower limit (DC)  | 19.2 V   |
| permissible range, upper limit (DC)  | 28.8 V   |
| output voltage / header  |  |
| Rated value (DC)   | 24 V   |
| Power loss   |  |
| Power loss, typ.   | 1.5 W  |
| Address area   |  |
| Address space per module   |  |
| <ul><li>Outputs</li></ul>  | 1 byte   |
| Hardware configuration   |  |
| Automatic encoding   | Yes  |
| Mechanical coding element  | Yes  |
| Type of mechanical coding element  | type B   |
| Digital outputs  |  |
|  |  |

| Number of digital outputs                                      | 8                       |
|--|-------------------------|
| Current-sinking  | Yes                     |
| Digital outputs, parameterizable                               | Yes                     |
| Short-circuit protection                                       | Yes                     |
| Response threshold, typ.                                       | 1.5 A                   |
| Limitation of inductive shutdown voltage to                    | Typ. 47 V               |
| Controlling a digital input                                    | Yes                     |
| Switching capacity of the outputs                              | 100                     |
| with resistive load, max.                                      | 0.5 A                   |
| • on lamp load, max.   | 5 W                     |
| Load resistance range  | 3 W                     |
| <u>-</u>   | 48 Ω                    |
| lower limit  |                         |
| • upper limit  | 3 400 Ω                 |
| Output current   | 0.5.4                   |
| • for signal "1" rated value                                   | 0.5 A                   |
| • for signal "1" permissible range, max.                       | 0.5 A                   |
| for signal "0" residual current, max.                          | 5 μA                    |
| Output delay with resistive load                               |                         |
| • "0" to "1", max.   | 300 μs                  |
| • "1" to "0", max.   | 600 µs                  |
| Parallel switching of two outputs                              |                         |
| for uprating   | No                      |
| for redundant control of a load                                | Yes                     |
| Switching frequency  |                         |
| <ul> <li>with resistive load, max.</li> </ul>                  | 100 Hz                  |
| <ul> <li>with inductive load, max.</li> </ul>                  | 0.5 Hz                  |
| <ul><li>on lamp load, max.</li></ul>                           | 10 Hz                   |
| Total current of the outputs                                   |                         |
| Current per channel, max.                                      | 0.5 A                   |
| Current per module, max.                                       | 4 A                     |
| Total current of the outputs (per module)                      |                         |
| horizontal installation  |                         |
| — up to 60 °C, max.  | 4 A                     |
| vertical installation  |                         |
| — up to 50 °C, max.  | 4 A                     |
| Cable length   |                         |
| • shielded, max.   | 1 000 m                 |
| • unshielded, max.   | 600 m                   |
| nterrupts/diagnostics/status information                       | 000 III                 |
|  | Yes                     |
| Diagnostics function   |                         |
| Substitute values connectable                                  | Yes                     |
| Alarms   | V                       |
| Diagnostic alarm   | Yes                     |
| Diagnoses  |                         |
| Monitoring the supply voltage                                  | Yes                     |
| Wire-break   | No                      |
| Short-circuit  | No                      |
| Group error  | Yes                     |
| Diagnostics indication LED                                     |                         |
| <ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul> | Yes; green PWR LED      |
| <ul> <li>Channel status display</li> </ul>                     | Yes; green LED          |
| <ul> <li>for channel diagnostics</li> </ul>                    | No                      |
| <ul> <li>for module diagnostics</li> </ul>                     | Yes; green/red DIAG LED |
| Potential separation   |                         |
| Potential separation channels                                  |                         |
| between the channels   | No                      |
| between the channels and backplane bus                         | Yes                     |
| solation   |                         |
| Isolation tested with  | 707 V DC (type test)    |
|  |                         |

| Suitable for safety functions                                   | No   |
|---|--|
|   | INO  |
| Ambient conditions  |  |
| Ambient temperature during operation                            |  |
| <ul> <li>horizontal installation, min.</li> </ul>               | -25 °C   |
| <ul> <li>horizontal installation, max.</li> </ul>               | 60 °C  |
| <ul> <li>vertical installation, min.</li> </ul>                 | -25 °C   |
| <ul> <li>vertical installation, max.</li> </ul>                 | 50 °C  |
| Altitude during operation relating to sea level                 |  |
| <ul> <li>Installation altitude above sea level, max.</li> </ul> | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual |
| Dimensions  |  |
| Width   | 15 mm  |
| Height  | 73 mm  |
| Depth   | 58 mm  |
| Weights   |  |
| Weight, approx.   | 30 g   |

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