

Siemens 6ES7132-6BF01-0BA0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	designation DQ 8x24VDC/0.5A ST

Description

6ES7132-6BF01-0BA0

SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage

General information

Product type designation DQ 8x24VDC/0.5A ST

HW functional status From FS02

Firmware version V0.0

- FW update possible No

usable BaseUnits BU type A0

Color code for module-specific color identification plate CC02

Product function

- I&M data Yes; I&M0 to I&M3

- Isochronous mode No

Engineering with

- STEP 7 TIA Portal configurable/integrated from version V14

- STEP 7 configurable/integrated from version V5.5 SP3 or higher

- PCS 7 configurable/integrated from version V8.1 SP1

- PROFIBUS from GSD version/GSD revision One GSD file each, Revision 3 and 5 and higher

- PROFINET from GSD version/GSD revision GSDML V2.3

Operating mode

- DQ Yes

- DQ with energy-saving function No

- PWM No

- Oversampling No

- MSO No

Supply voltage

Rated value (DC) 24 V

permissible range, lower limit (DC) 19.2 V

permissible range, upper limit (DC) 28.8 V

Reverse polarity protection Yes

Input current

Current consumption, max. 35 mA; without load

output voltage / header

Rated value (DC) 24 V

Power loss

Power loss, typ. 1 W

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Address area

Address space per module

- Address space per module, max. 1 byte; + 1 byte for QI information

Hardware configuration

Automatic encoding Yes

- Mechanical coding element Yes
- Type of mechanical coding element Type A

Selection of BaseUnit for connection variants

- 1-wire connection BU type A0
- 2-wire connection BU type A0
- 3-wire connection BU type A0 with AUX terminals or potential distributor module
- 4-wire connection BU type A0 + Potential distributor module

Digital outputs

Type of digital output Source output (PNP, current-sourcing)

Number of digital outputs 8

Current-sourcing Yes

Digital outputs, parameterizable Yes

Short-circuit protection Yes

- Response threshold, typ. 1 A

Limitation of inductive shutdown voltage to Typ. L+ (-50 V)

Controlling a digital input Yes

Switching capacity of the outputs

- with resistive load, max. 0.5 A
- on lamp load, max. 5 W

Load resistance range

- lower limit 48 Ω
- upper limit 12 k Ω

Output voltage

- for signal "1", min. L+ (-0.8 V)

Output current

- for signal "1" rated value 0.5 A
- for signal "1" permissible range, max. 0.5 A
- for signal "0" residual current, max. 0.1 mA

Output delay with resistive load

- "0" to "1", max. 50 μ s; at rated load
- "1" to "0", max. 100 μ s; at rated load

Parallel switching of two outputs

- for uprating No
- for redundant control of a load Yes

Switching frequency

- with resistive load, max. 100 Hz
- with inductive load, max. 2 Hz
- on lamp load, max. 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

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— up to 50 °C, max. 4 A

Cable length

- shielded, max. 1 000 m
- unshielded, max. 600 m

Interrupts/diagnostics/status information

Diagnostics function Yes

Substitute values connectable Yes

Alarms

- Diagnostic alarm Yes

Diagnoses

- Monitoring the supply voltage Yes
- Wire-break Yes; Module-wise
- Short-circuit to M Yes; Module-wise
- Short-circuit to L+ Yes; Module-wise
- Group error Yes

Diagnostics indication LED

- Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED
- Channel status display Yes; green LED

- for channel diagnostics No

- for module diagnostics Yes; green/red DIAG LED

Potential separation

Potential separation channels

- between the channels No
- between the channels and backplane bus Yes
- between the channels and the power supply of the electronics

electronics

No

Isolation

Isolation tested with 707 V DC (type test)

Standards, approvals, certificates

Suitable for safety functions No

Suitable for safety-related tripping of standard modules Yes; see FAQ Entry ID: 39198632

Highest safety class achievable in safety mode

- Performance level according to ISO 13849-1 PL d
- SIL acc. to IEC 61508 SIL 2

Ambient conditions

Ambient temperature during operation

- horizontal installation, min. -30 °C; < 0 °C as of FS02
- horizontal installation, max. 60 °C
- vertical installation, min. -30 °C; < 0 °C as of FS02
- vertical installation, max. 50 °C

Altitude during operation relating to sea level

- Installation altitude above sea level, max. 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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