

Siemens 6ES7131-0BH00-0XB0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	and spring-loaded terminals, permanent wiring; 3 and

Description

6ES7131-0BH00-0XB0

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE

DIGITAL, FOR ET 200B, W=160MM, 16DI 24V DC, STANDARD

General information

Usable terminal block TB1/DC, TB1-4/DC, TB3/DC, TB3-4/DC

Supply voltage

Rated value (DC) 24 V; L3+; value at $t < 0.5$ s: 35 V

permissible range, lower limit (DC) 18.5 V

permissible range, upper limit (DC) 30.2 V

Input current

Current consumption, typ. 70 mA; from L3+; logic

Current consumption, max. 500 mA; from L3+; sensor

I^2t 0.05 A²·s; with starting current inrush

Power loss

Power loss, typ. 2.5 W

Digital inputs

Number of digital inputs 16

Input voltage

- Rated value (DC) 24 V
- for signal "0" -30 to +5V
- for signal "1" 13 to 30V

Input current

- for signal "1", typ. 4 mA; At 24 V min. 2 mA

Input delay (for rated value of input voltage)

for standard inputs

— at "0" to "1", min. 2 ms

— at "0" to "1", max. 3.5 ms

Cable length

- unshielded, max. 100 m

Encoder

Connectable encoders

- 2-wire sensor Yes

— permissible quiescent current (2-wire sensor), max.

1.5 mA

Interfaces

PROFIBUS DP

Transmission rate, max. 12 Mbit/s

Protocols

Bus protocol/transmission protocol PROFIBUS DP

PROFIBUS DP

Services

— FREEZE capability Yes

Interrupts/diagnostics/status information

Diagnostics indication LED

- RUN LED Yes
- Bus fault BF (red) Yes
- Status indicator digital input (green) Yes

Potential separation

between electronic block and PROFIBUS DP Yes

Potential separation digital inputs

- Potential separation digital inputs No

Degree and class of protection

Degree of protection acc. to EN 60529 IP20

Ambient conditions

Ambient temperature during operation

- horizontal installation, min. 0 °C
- horizontal installation, max. 60 °C; 40°C for other mountings

Air pressure acc. to IEC 60068-2-13

- permissible range, lower limit 795 hPa
- permissible range, upper limit 1 080 hPa

Relative humidity

- Operation, min. 15 %
- Operation, max. 95 %; RH class 2 in accordance with IEC 1131-2

Vibrations

- Operation, tested according to IEC 60068-2-6 Yes; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g)

Shock testing

- tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms

Connection method

Design of electrical connection for the inputs and outputs

Screw-type and spring-loaded terminals, permanent wiring; 3 and

4-wire connection

Dimensions

Width 160 mm; EB and TB

Height 130 mm; EB and TB

Depth 60 mm; EB and TB

Weights

Weight, approx. 600 g; EB and TB

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