

SIMATIC DP, Electronics module for ET 200S, 1 SSI 25 bit/1 MHz 15 mm width, Module for connection of absolute value encoders with SSI Synchronous Serial Interface with DI and comparison value with clock synchronization



Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	40 mA
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
24 V encoder supply	
• 24 V	Yes
• Short-circuit protection	Yes
• Output current, max.	500 mA
Absolute encoder (SSI) encoder supply	
• Absolute encoder (SSI)	Yes
• Type of output voltage	L+ (-0.8 V)
• Short-circuit protection	Yes

- Output current, max. 500 mA

Power loss

Power loss, typ. 1 W

Hardware configuration

Module exchange

- Module exchange during operation of the IM-DP Yes
- Module exchange under process voltage Yes

Digital inputs

Number of digital inputs 1

Input voltage

- for signal "0" -30 to +5 V
- for signal "1" +11 to +30V

Input current

- for signal "0", max. (permissible quiescent current) 2 mA
- for signal "1", typ. 9 mA

Input delay (for rated value of input voltage)

for standard inputs

- at "0" to "1", max. 300 µs
- at "1" to "0", max. 300 µs

Cable length

- shielded, max. 50 m

Encoder

Number of connectable encoders, max. 1

Connectable encoders

- Absolute encoder (SSI) Yes
- 2-wire sensor Yes; Type 2

Encoder signals, absolute encoder (SSI)

- Input signal to RS-422
- Telegram length, parameterizable 13, 14, 16, 21, 24 & 25 bit
- Binary code Yes
- Gray code Yes
- Cable length, shielded, max. 320 m; At 125 kHz
- Monoflop time 16/32/48/64 µs

Interrupts/diagnostics/status information

Diagnostics indication LED

- Group error SF (red) Yes
- Status indicator digital input (green) Yes
- Status indicator forward counting (green) Yes

- Status indicator backward counting (green)

Yes

Potential separation

Potential separation digital inputs

- Potential separation digital inputs

No; same potential with L+ and SSI

Potential separation counter

- between the channels and backplane bus
- Between the channels and load voltage L+

Yes

No

Dimensions

Width

15 mm

Height

81 mm

Depth

52 mm

Weights

Weight, approx.

40 g

last modified:

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