



SIMATIC DP, ELECTRONIC MODULE F. ET 200S, 1 SSI 25BIT/1MHZ 15MM WIDE MODULE FOR CONN. OF ABSOLUTE ENCODERS WITH SSI INTERFACE SYNCHRONOUS SERIAL INTERFACE WITH DI AND COMPAR. VALUE WITH CLOCK CYCLIC SYNCHRON. APP

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
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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)
• Output current, max.	500 mA
• short-circuit protection	Yes

Power losses

Power loss, typ.	1 W
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Hardware configuration

Module exchange

• Hot swapping the IM-DP	Yes
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- Module exchange under process voltage

Yes

Digital inputs

Number of digital inputs 1

Input voltage

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

Input current

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

Cable length

- shielded, max. 50 m

Encoder

Number of connectable encoders, max. 1

Connectable encoders

- Absolute encoder (SSI) Yes

Encoder signals, absolute encoder (SSI)

- Message frame 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 μ s

Diagnostics indication LED

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

Galvanic isolation

Galvanic isolation digital inputs

- Galvanic isolation digital inputs No; same potential with L+ and SSI

Galvanic isolation counter

- between the channels and the backplane bus Yes
- between the channels and the load voltage L+ No

Dimensions

Width 15 mm

Height 81 mm

Depth 52 mm

Weights

Weight, approx. 40 g

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