



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
---	-------

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
--------------------------	-----

• Output voltage • Output current, max. • Short-circuit protection	L+ (-0.8 V) 500 mA Yes
Power loss	
Power loss, typ.	1 W
Hardware configuration	
Module exchange	
• Hot swapping the IM-DP • Module exchange under process voltage	Yes Yes
Digital inputs	
Number of digital inputs	1
Input voltage	
• for signal "0" • for signal "1"	-30 to +5 V 11 to 30 V
Input current	
• for signal "0", max. (permissible quiescent current) • for signal "1", typ.	2 mA 9 mA
Cable length	
• Cable length, shielded, max.	50 m
Encoder	
Number of connectable encoders, max.	1
Connectable encoders	
• Absolute encoder (SSI)	Yes
Encoder signals, absolute encoder (SSI)	
• Telegram length, parameterizable • Binary code • Gray code • Cable length, shielded, max. • Monoflop time	13, 14, 16, 21, 24 & 25 bit Yes Yes 320 m; At 125 kHz 16/32/48/64 µs
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• Group error SF (red) • Status indicator digital input (green) • Status indicator backward counting (green) • Status indicator forward counting (green)	Yes Yes Yes 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
last modified:	31.07.2014