

SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR
MAX. 8 S7-300 MODULES, WITH REDUNDANCY, TIME
STAMPING FIT FOR ISOCHRONE MODE

General information

Vendor identification (VendorID)	801Eh
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Supply voltage

Rated value (DC)	Yes
<ul style="list-style-type: none"> • 24 V DC 	
permissible range (ripple included), lower limit (DC)	20.4 V
permissible range (ripple included), upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2,5 A

Mains buffering

<ul style="list-style-type: none"> • Mains/voltage failure stored energy time 	5 ms
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Input current

Current consumption, max.	470 mA
Inrush current, typ.	3.5 A
I^2t	0.08 A ² ·s

Power loss

Power loss, typ.	4 W
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Address area

Addressing volume	
<ul style="list-style-type: none"> • Inputs 	128 byte
<ul style="list-style-type: none"> • Outputs 	128 byte

Hardware configuration

Number of modules per DP slave interface, max.	8
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Time stamping

Accuracy	1 ms
Number of message buffers	15
Number of stampable digital inputs, max.	128
Time format	RFC 1119 Internet (ISP)
Time resolution	0.466 ns
Time stamp on signal change	1

Interfaces

Interface physics, RS 485	Yes
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PROFIBUS DP

• Node addresses	1 to 125
• automatic detection of transmission rate	Yes
• Output current, max.	70 mA
• Transmission rate, max.	12 Mbit/s
• Transmission procedure	RS 485
• SYNC capability	Yes
• FREEZE capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes; only with F- DO
• Connector type	9-pin sub D

1. Interface

DP slave

• GSD file	SI03801E.GSG
• automatic baud rate search	Yes

Protocols

Bus protocol/transmission protocol	PROFIBUS DP
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Degree and class of protection

Degree of protection acc. to EN 60529

• IP20	Yes
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Ambient conditions

Ambient temperature during operation

• min.	0 °C
• max.	60 °C

Air pressure acc. to IEC 60068-2-13

• Operating altitude above sea level, max.	3 500 m
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Configuration

Configuration software

• STEP 7	Yes
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Dimensions

Width	40 mm
Height	125 mm
Depth	117 mm

Weights

Weight, approx.	350 g
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