



Figure similar

SIMATIC DP, Connection IM 153-1, for ET 200M, for max. 8 S7-300 modules

General information

Product type designation	IM 153-1 DP ST
Vendor identification (VendorID)	801Dh

Supply voltage

Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	not necessary

Mains buffering

• Mains/voltage failure stored energy time	5 ms
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Input current

Current consumption, max.	350 mA; At 24 V DC
Inrush current, typ.	2.5 A
I ² t	0.1 A ² ·s

output voltage / header

Rated value (DC)	5 V
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Output current

for backplane bus (5 V DC), max.	1 A
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Power loss

Power loss, typ.	3 W
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Address area

Addressing volume	
• Inputs	128 byte
• Outputs	128 byte

Hardware configuration

Number of modules per DP slave interface, max.	8
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Interfaces

Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s

1. Interface

automatic detection of transmission rate	Yes
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Interface types

• Output current of the interface, max.	90 mA
• Design of the connection	9-pin sub D socket

PROFIBUS DP slave

• GSD file	(for DPV1) SIEM801D.GSD; SI01801D.GSG
• automatic baud rate search	Yes

Protocols	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Protocols (Ethernet)	
• TCP/IP	No
PROFIBUS DP	
• Number of node addresses, max.	1 to 125 permitted
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave communication)	Yes; Sender
Potential separation	
Potential separation exists	Yes
Isolation	
Isolation tested with	Isolation voltage 500 V
Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
• horizontal installation, min.	0 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	0 °C
• vertical installation, max.	40 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 000 m
configuration / header	
Configuration software	
• STEP 7	STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	360 g

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