

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



Figure similar

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	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
Input current	
Current consumption, max.	350 mA; At 24 V DC
Inrush current, typ.	2.5 A
$I^2t$	0.1 A <sup>2</sup> ·s
Output voltage	

Rated value (DC)	5 V
<b>Output current</b>	
for backplane bus (5 V DC), max.	1 A
<b>Power loss</b>	
Power loss, typ.	3 W
<b>Address area</b>	
<b>Addressing volume</b>	
• Inputs	128 byte
• Outputs	128 byte
<b>Hardware configuration</b>	
Number of modules per DP slave interface, max.	8
<b>Interfaces</b>	
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s
<b>1. Interface</b>	
automatic detection of transmission rate	Yes
<b>Interface types</b>	
• Output current of the interface, max.	90 mA
• Design of the connection	9-pin sub D socket
<b>PROFIBUS DP slave</b>	
• GSD file	(for DPV1) SIEM801D.GSD; SI01801D.GSG
• automatic baud rate search	Yes
<b>Protocols</b>	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
<b>Protocols (Ethernet)</b>	
• TCP/IP	No
<b>PROFIBUS DP</b>	
• Number of node addresses, max.	1 to 125 permitted
<b>Services</b>	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave communication)	Yes; Sender
<b>Potential separation</b>	
Potential separation exists	Yes
<b>Isolation</b>	
Isolation tested with	Isolation voltage 500 V
<b>Degree and class of protection</b>	

IP degree of protection	IP20
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### 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
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### Configuration

#### Configuration software

• STEP 7	STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file
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### Dimensions

Width	40 mm
Height	125 mm
Depth	117 mm

### Weights

Weight, approx.	360 g
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<b>last modified:</b>	12/09/2020
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