

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"> Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption, max.	350 mA; At 24 V DC
Inrush current, typ.	2.5 A
I^2t	0.1 A ² ·s
Output voltage	

Rated value (DC)	5 V
Output current	
for backplane bus (5 V DC), max.	1 A
Power loss	
Power loss, typ.	3 W
Address area	
Addressing volume	
• Inputs	128 byte
• Outputs	128 byte
Hardware configuration	
Number of modules per DP slave interface, max.	8
Interfaces	
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s
1. Interface	
automatic detection of transmission rate	Yes
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

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

last modified:	08/08/2020
-----------------------	------------