



Figure similar

\*\*\* spare part \*\*\* 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	
<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
Output current	
for backplane bus (5 V DC), max.	1 A
Power loss	
Power loss, typ.	3 W
Address area	
Addressing volume	
<ul style="list-style-type: none"> <li>Inputs</li> <li>Outputs</li> </ul>	128 byte 128 byte
Hardware configuration	
number of modules per DP device interface, max.	8
Interfaces	
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s
1. Interface	
automatic detection of transmission rate	Yes
Interface types	
<ul style="list-style-type: none"> <li>Output current of the interface, max.</li> <li>Design of the connection</li> </ul>	90 mA 9-pin sub D socket
PROFIBUS DP device	
<ul style="list-style-type: none"> <li>GSD file</li> <li>automatic baud rate search</li> </ul>	(for DPV1) SIEM801D.GSD; SI01801D.GSG 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		
Classifications			
		Version	Classification
	eClass	14	27-24-26-08
	eClass	12	27-24-26-08
	eClass	9.1	27-24-26-08
	eClass	9	27-24-26-08
	eClass	8	27-24-26-08
	eClass	7.1	27-24-26-08
	eClass	6	27-24-26-08
	ETIM	10	EC001604
	ETIM	9	EC001604
	ETIM	8	EC001604
	ETIM	7	EC001604
	IDEA	4	3564
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			

[Manufacturer Declaration](#)



[Miscellaneous](#)



General Product Approval

EMV



[China RoHS](#)

[Manufacturer Declaration](#)



EMV

For use in hazardous locations



[FM](#)



For use in hazardous locations

Maritime application

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Maritime application

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