

SIMATIC DP, INTERFACE IM 153-1, FOR ET 200M, FOR MAX. 8 S7-300 MODULES



### General information

Vendor identification (VendorID)	801Dh
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### Supply voltage

24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
permissible range (ripple included), lower limit (DC)	20.4 V
permissible range (ripple included), upper limit (DC)	28.8 V
External protection for supply cables (recommendation)	not necessary

### Mains buffering

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

### Input current

Current consumption, max.	350 mA; at 24 V DC
Rated value at 24 V DC	625 mA
Inrush current, typ.	2.5 A
$I^2t$	0.1 A <sup>2</sup> ·s

<b>Output voltage</b>	
Rated value (DC)	5 V
<b>Output current</b>	
for backplane bus (5 V DC), max.	1 A
<b>Power losses</b>	
Power loss, typ.	3 W
<b>Address area</b>	
Addressing volume	
• Inputs	128 byte
• Outputs	128 byte
<b>Hardware configuration</b>	
Number of modules per DP slave interface, max.	8
<b>Interfaces</b>	
Interface physics, RS 485	Yes
Interface physics, FOC	No
<b>PROFIBUS DP</b>	
• Node addresses	1 to 125 permitted
• Automatic detection of transmission speed	Yes
• PROFIBUS DP, output current, max.	90 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; Sender
• PROFIBUS DP	9-pin sub D socket
<b>1st interface</b>	
DP slave	
• GSD file	(for DPV1) SIEM801D.GSD; SI01801D.GSG
• Automatic baud rate search	Yes
<b>Communication functions</b>	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
<b>Isolation</b>	
Isolation checked with	Isolation voltage 500 V
<b>Degree and class of protection</b>	
Degree of protection to EN 60529	
• IP20	Yes
<b>Ambient conditions</b>	
Operating temperature	
• Min.	0 °C

• max. 60 °C

#### Air pressure

• Operating 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:** 04.12.2014