

SIEMENS

Product data sheet
6ES7153-1AA03-0XB0

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

Rated value, 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V

Input current

Rated value at 24 V DC	625 mA
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Output voltage

Rated value, 5 V DC	Yes
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Output current

for backplane bus (5 V DC), max.	1 A
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Supply voltages
Rated value

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

Mains/voltage failure stored energy time	5 ms
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Current consumption

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

Power loss, typ.	3 W
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Address area
Addressing volume

Outputs	128 byte
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Inputs	128 byte
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Hardware configuration

Number of modules per DP slave interface, max.	8
Communication functions	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Interfaces	
PROFIBUS DP, output current, max.	90 mA
Interface physics, RS 485	Yes
Interface physics, FOC	No
Connection method	
PROFIBUS DP	9-pin sub D socket
PROFIBUS DP	
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s
Node addresses	1 to 125 permitted
automatic detection of transmission speed	Yes
SYNC capability	Yes
FREECE capability	Yes
Direct data exchange (slave-to-slave communication)	Yes ; Sender
1st interface	
DP slave	
GSD file	(for DPV1) SIEM801D.GSD; SI01801D.GSG
automatic baud rate search	Yes
CPU/ programming	
Configuration software	
STEP 7	STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file
Isolation	
Isolation checked with	Isolation voltage 500 V
Environmental requirements	
Operating temperature	
Min.	0 °C
max.	60 °C
Air pressure	
Operating altitude above sea level, max.	3000 m
Degree of protection	
IP20	Yes

General information

Vendor identification (VendorID)	801Dh
Dimensions and weight	
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weight	
Weight, approx.	360 g
Status	Dec 13, 2010