

SIEMENS

Product data sheet

6ES7153-1AA03-0XB0


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

General information

Vendor identification (VendorID) 801Dh

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

Mains/voltage failure stored energy time 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 ² t	0.1 A ² ·s
Output voltage	
Rated value, 5 V DC	Yes
Output current	
for backplane bus (5 V DC), max.	1 A
Power losses	
Power loss, typ.	3 W
Address area	
Addressing volume	
Outputs	128 byte
Inputs	128 byte
Hardware configuration	
Number of modules per DP slave interface, max.	8
Interfaces	
Interface physics, RS 485	Yes
Interface physics, FOC	No
PROFIBUS DP	
Node addresses	1 to 125 permitted
Automatic detection of transmission speed	Yes
PROFIBUS DP, output current, max.	90 mA
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s
SYNC capability	Yes
FREECE capability	Yes
Direct data exchange (slave-to-slave communication)	Yes ; Sender
PROFIBUS DP	9-pin sub D socket
1st interface	
DP slave	
GSD file	(for DPV1) SIEM801D.GSD; SI01801D.GSG
Automatic baud rate search	Yes
Communication functions	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Isolation	

Isolation checked with	Isolation voltage 500 V
Degree and class of protection	
IP20	Yes
Ambient conditions	
Operating temperature	
Min.	0 °C
max.	60 °C
Air pressure	
Operating altitude above sea level, max.	3000 m
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weight	
Weight, approx.	360 g
Status	Jul 17, 2012