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Data sheet 6ES7151-1AA02-0AB0

SIMATIC DP, INTERFACE MODULE IM151-1 STANDARD FOR ET200S; TRANSMISS. RATE UP TO 12MBIT/S; DATA VOLUME 128BYTE FOR EACH INPUT AND OUTPUT; MAX. OF 63 POWER, ELECTR. OR MOTOR STARTER MODULES CONNECTABLE; BUS INTERFACING VIA 9-WAY SUB-D CONN. INCL. TERMINATING MODULE

Supply voltage	
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Input current	
from supply voltage 1L+, max.	200 mA
Output current	
for backplane bus (5 V DC), max.	700 mA
Address area	
Address space per module	
● Inputs	128 byte
● Outputs	128 byte
Interfaces	
Interfaces/bus type	PROFIBUS DP
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s; 9.6 / 19.2 / 45.45 / 93.75 / 187.5 / 500 kbit/s; 1.5 / 12 Mbit/s ; IM 151 also 3 / 6 Mbit/s
PROFIBUS DP	
● Cable length, max.	1 m
1. Interface	
Interface types	
● RS 485	Yes
● Design of the connection	9-pin sub D socket
Protocols	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave communication)	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
● Bus fault BF (red)	Yes
● Group error SF (red)	Yes
● Monitoring 24 V voltage supply ON (green)	Yes
Potential separation	
between backplane bus and electronics	No
between electronic block and PROFIBUS DP	Yes
between supply voltage and electronics	No
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	45 mm
Height	119.5 mm
Depth	75 mm
Weights	

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Weight, approx.	150 g

Approvals / Certificates

General Product Approval					EMV
Miscellaneous	Manufacturer Declaration	UL	RCM	China RoHS	RCM

For use in hazardous locations		Maritime application		
FM	UL	ABS	CCS (China Classification Society)	KR (Korean Register of Shipping)

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