

SIMATIC DP, INTERFACE MODULE IM151-1 STANDARD FOR ET200S; INCL. TERMINATING MODULE DATA VOLUME 244BYTE FOR EACH INPUT AND OUTPUT; MAX. OF 63 PERIPHERIEMODULES PROFIBUS DP V0 AND V1 UP TO 2M WIDTH CONNECTABLE; BUS INTERFACING VIA 9-WAY SUB-D



General information

Vendor identification (VendorID)	806Ah
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Supply voltage

Mains buffering

• Mains/voltage failure stored energy time	20 ms
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Input current

from supply voltage 1L+, max.	200 mA
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Power loss

Power loss, typ.	3.3 W
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Address area

Addressing volume

• Inputs	244 byte
• Outputs	244 byte

Interfaces

Interface physics, RS 485	Yes; 9-pin sub D socket
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PROFIBUS DP

• Output current, max.	80 mA
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• Transmission rate, max.	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s
• Transmission procedure	RS 485
• SYNC capability	Yes
• FREEZE capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes
Cable length	
— Cable length, max.	1 200 m

Protocols

PROFIBUS DP	Yes
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Isochronous mode

Isochronous operation (application synchronized up to terminal)	No
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Interrupts/diagnostics/status information

Alarms	Yes
Diagnostic functions	Yes
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

Permissible potential difference

between different circuits	75 V DC/60 V AC
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Isolation

Isolation tested with	500 V DC
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Standards, approvals, certificates

CE mark	Yes
UL approval	Yes

Ambient conditions

Ambient temperature during operation	
• min.	0 °C
• max.	60 °C

Dimensions

Width	45 mm
Height	119.5 mm

Depth	75 mm
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Weights

Weight, approx.	150 g
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