MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7151-1AA03-0AB0

PROFIBUS INTERFACE MODULE

Used with the applicable SIMATIC ET 200S configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6ES7151-1AA03-0AB0 technical data and applicable product instructions

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Data sheet 6ES7151-1AA03-0AB0

*** SPARE PART*** 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 UP TO 2M WIDTH CONNECTABLE; BUS INTERFACING VIA 9-WAY SUB-D INCL. TERMINATING MODULE

General information	
Vendor identification (VendorID)	806Ah
Supply voltage	
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
from supply voltage 1L+, max.	200 mA
Power loss	
Power loss, typ.	3.3 W
Address area	
Addressing volume	
• Inputs	128 byte
• Outputs	128 byte
Interfaces	
Interface physics, RS 485	Yes; 9-pin sub D socket
PROFIBUS DP	
• Output current, max.	80 mA
• 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
• SYNC capability	Yes
• FREEZE capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes
• Cable length, max.	1 200 m
Protocols	
PROFIBUS DP	Yes
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	

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Alarms	No
Diagnostics function	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	500 V DC
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	45 mm
Height	119.5 mm
Depth	75 mm
Weights	
Weight, approx.	150 g

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