

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

SIEMENS SIMATIC S7

6ES7153-2BB00-0XB0

IM 153-2 FO INTERFACE MODULE

Applicable product family: SIMATIC ET 200M distributed I/O

OFFICIAL SOURCE

6ES7153-2BB00-0XB0.pdf

The following pages are selected from the supplied manufacturer document and retain their original page content.

Spare part SIMATIC DP, Connection ET 200M IM 153-2 FO
High Feature for max. 8 S7-300 modules, with redundancy capability,
With integr. LWL interface for addition of an optical line



Figure similar

General information	
Vendor identification (VendorID)	8071h
Supply voltage	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	not necessary
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	500 mA; At 24 V DC
Inrush current, typ.	3.5 A
I _t ²	0.1 A ² ·s
Output voltage	
Rated value (DC)	5 V
Output current	

for backplane bus (5 V DC), max.	1 A
Power loss	
Power loss, typ.	4.5 W
Address area	
Addressing volume	
• Inputs	128 byte
• Outputs	128 byte
Hardware configuration	
Number of modules per DP slave interface, max.	8
Time stamping	
Accuracy	10 ms; 10 ms / 3 ms
Number of message buffers	15
Messages per message buffer	20
Number of stampable digital inputs, max.	128
Time format	RFC 1119 Internet (ISP)
Time resolution	1 ms
Time interval for transmitting the message buffer if a message is present	1 000 ms
Time stamp on signal change	rising / falling edge as signal entering or exiting
Interfaces	
Transmission procedure	FOC, wavelength 660 nm
Transmission rate, max.	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 12 Mbit/s
1. Interface	
PROFIBUS DP slave	
• GSD file	(for DPV1) SIEM8071.GSD; SI018071.GSG (for IM 153-2AB0x); SI028071.GSG (for IM 153-2BB0x)
• automatic baud rate search	Yes
Protocols	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Protocols (Ethernet)	
• TCP/IP	No
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
Potential separation	
Potential separation exists	Yes
Isolation	
Isolation tested with	Isolation voltage 500 V

Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 000 m
Configuration	
Configuration software	
• STEP 7	Yes; STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	360 g
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