



Figure similar

***** Replacement part ***** SIMATIC DP, Connection DP/PA-LINK and ET200M IM153-2 HF for extended temperature range for max. 12 S7-300 modules with redundancy capability, timestamping suitable for isochronous mode new features: up to 12 modules can be used Slave initiative for Drive ES and Switch ES expanded quantity structure for HART auxiliary variables Operation of the 64-channel modules 32 signals / slot

General information	
Product type designation	IM 153-2 HF
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	650 mA
Inrush current, typ.	3 A
I^2t	0.1 A ² ·s
Output voltage	
Rated value (DC)	5 V
Output current	
for backplane bus (5 V DC), max.	1.5 A
Power loss	
Power loss, typ.	5.5 W
Address area	
Addressing volume	
• Inputs	244 byte
• Outputs	244 byte
Hardware configuration	
Number of modules per DP slave interface, max.	12
Time stamping	
Accuracy	1 ms; 1 ms at up to 8 modules; 10 ms at up to 12 modules
Number of message buffers	15
Messages per message buffer	20
Number of stampable digital inputs, max.	128; Max. 128 signals/station; max. 32 signals/slot
Time format	RFC 1119
Time resolution	0.466 ns
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 rate, max.	12 Mbit/s

1. Interface	
automatic detection of transmission rate	Yes
Interface types	
<ul style="list-style-type: none"> • Output current of the interface, max. • Design of the connection 	70 mA 9-pin sub D socket
PROFIBUS DP slave	
<ul style="list-style-type: none"> • GSD file • automatic baud rate search 	SI0480E.GSG Yes
Protocols	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
PROFIBUS DP	
Services	
<ul style="list-style-type: none"> — SYNC capability — FREEZE capability — Direct data exchange (slave-to-slave communication) 	Yes Yes Yes; Sender
Isolation	
Isolation tested with	Isolation voltage 500 V
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • min. • max. 	-25 °C 60 °C
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. 	3 000 m
Configuration	
Configuration software	
<ul style="list-style-type: none"> • 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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