

SPARE PART SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRONOUS MODE NEW FEATURES: UP TO 12 MODULES / STATION SLAVE INITIATIVE FOR DRIVE ES AND SWITCH ES EXTENDED DATA FOR HART SECONDARY VARIABLES OPERATOR OF 64-CHANNEL MODULES 32 SIGNALS / SLOT



Figure similar

General information	
Product type designation	IM 153-2 DP HF
Vendor identification (VendorID)	801Eh
Supply voltage	
Rated value (DC)	Yes
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2,5 A
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	600 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; 1ms at up to 8 modules; 10ms 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 procedure	RS 485
Interface physics, RS 485	Yes
Interface physics, FOC	No
PROFIBUS DP	
• Node addresses	1 to 125 permitted
• automatic detection of transmission rate	Yes
• Output current, max.	70 mA
• Transmission rate, max.	12 Mbit/s
• SYNC capability	Yes
• FREEZE capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes; Sender
• Design of electrical connection of PROFIBUS interface	9-pin sub D
1. Interface	
DP slave	
• GSD file	SI04801.GSG

• automatic baud rate search Yes

Protocols

Bus protocol/transmission protocol PROFIBUS DP to EN 50170

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

Air pressure acc. to IEC 60068-2-13

- 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 360 g

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