

SIMATIC DP, INTERFACE DP/PA-LINK A. ET200M IM153-2 HF FOR EXPANDED TEMPERATURE RANGE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRON MODE NEW FEATURES: 12 MODULES / STATION SLAVE INITIATIVE FOR SWITCHES AND DRIVE ES EXTENDED DATA FOR HART SECONDARY VARIABLES OPERATON WITH 64PT MODULES EXTENDED TIMESTAMPS WITH 32 SIGNALS / SLOT +++ FOR COMPATIBILITY REFER TO THE MANUAL +++

General information

Vendor identification (VendorID)	801Eh
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Supply voltage

Rated value (DC)	Yes
<ul style="list-style-type: none"> • 24 V DC 	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
permissible range (ripple included), lower limit (DC)	20.4 V
permissible range (ripple included), upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2,5 A

Mains buffering

<ul style="list-style-type: none"> • Mains/voltage failure stored energy time 	5 ms
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Input current

Current consumption, max.	650 mA
Inrush current, typ.	3 A
I^2t	0.1 A ² ·s

Output current

for backplane bus (5 V DC), max.	1.5 A
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Power loss

Power loss, typ.	5.5 W
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Address area

Addressing volume	
<ul style="list-style-type: none"> • Inputs 	244 byte
<ul style="list-style-type: none"> • Outputs 	244 byte

Hardware configuration

Number of modules per DP slave interface, max.	12
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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

<ul style="list-style-type: none"> • Node addresses 	1 to 125 permitted
<ul style="list-style-type: none"> • automatic detection of transmission rate 	Yes
<ul style="list-style-type: none"> • Output current, max. 	70 mA
<ul style="list-style-type: none"> • Transmission rate, max. 	12 Mbit/s
<ul style="list-style-type: none"> • SYNC capability 	Yes
<ul style="list-style-type: none"> • FREEZE capability 	Yes
<ul style="list-style-type: none"> • Direct data exchange (slave-to-slave communication) 	Yes; as publisher with all IO, as subscriber with F-IO only
<ul style="list-style-type: none"> • Connector type 	9-pin sub D

1. Interface

DP slave	
<ul style="list-style-type: none"> • GSD file 	SI05801E.GSD
<ul style="list-style-type: none"> • automatic baud rate search 	Yes

Protocols

Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
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Isolation

Isolation tested with	Isolation voltage 500 V
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Degree and class of protection

Degree of protection acc. to EN 60529	
<ul style="list-style-type: none"> • IP20 	Yes

Ambient conditions

Air pressure acc. to IEC 60068-2-13	
<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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last modified: 06/22/2017