MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7153-2AA02-0XB0

REDUNDANCY-CAPABLE PROFIBUS INTERFACE MODULE

Used with the applicable SIMATIC ET 200M IM 153-2 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6ES7153-2AA02-0XB0 Product Data Sheet, 18 October 2014, pages 1-3.

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Product data sheet 6ES7153-2AA02-0XB0

SIMATIC DP,
ET 200M INTERFACE FOR MAX. 8 S7-300 MODULES,
WITH REDUNDANCY, TIME STAMPING



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General information	
Vendor identification (VendorID)	801Eh
Supply voltage	
24 V DC	Yes
permissible range (ripple included), lower limit (DC)	20.4 V
permissible range (ripple included), upper limit (DC)	28.8 V
External protection for supply cables (recommendation)	not necessary
Mains buffering	
Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	550 mA ; at 24 V DC
Inrush current, typ.	2.5 A
I^2t	0.1 $A^2 \cdot s$
Output voltage	
Rated value (DC)	5 V
Rated value, 5 V DC	Yes
Output current	
for backplane bus (5 V DC), max.	1 A

subject to modifications
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Power losses	
Power loss, typ.	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	1000 ms
Time stamp on signal change	rising / falling edge as signal entering or exiting
Interfaces	
Interface physics, RS 485	Yes
PROFIBUS DP	
Node addresses	1 to 125 permitted
Automatic detection of transmission speed	Yes
PROFIBUS DP, output current, max.	90 mA
Transmission rate, max.	12 Mbit/s
SYNC capability	Yes
FREEZE capability	Yes
Direct data exchange (slave-to-slave communication)	Yes ; Sender
PROFIBUS DP	9-pin sub D socket
1st interface	
DP slave	
GSD file	(for DPV1) SIEM801E.GSD; SI01801E.GSG (for IM 153-2AA0x); SI02801E.GSG (for IM 153-2BA0x)
Automatic baud rate search	Yes
Communication functions	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Isolation	
Isolation checked with	Isolation voltage 500 V
Degree and class of protection	

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IP20	Yes
Ambient conditions	
Operating temperature	
Min.	0 °C
max.	60 °C
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	360 g
Status	Oct 13, 2014

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