SIEMENS

Product data sheet 6ES7153-2BB00-0XB0



SIMATIC DP,
ET 200M INTERFACE IM 153-2 FO HIGH FEATURE FOR MAX. 8 S7-300 MODULES,
WITH REDUNDANCY,
W. INTEGR. FO INTERFACE FOR CONFIGURING AN OPTICAL LINE

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General information	
Vendor identification (VendorID)	8071h
Supply voltage	
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 supply cables (recommendation)	not necessary
Mains buffering	
Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	500 mA ; at 24 V DC
Rated value at 24 V DC	650 mA
Inrush current, typ.	3.5 A
I^2t	0.1 $A^2 \cdot s$
Output voltage	
Rated value, 5 V DC	Yes
Output current	

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for backplane bus (5 V DC), max.	1 A
Power losses	
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	1000 ms
Time stamp on signal change	rising / falling edge as signal entering or exiting
Interfaces	
Interface physics, RS 485	No
Interface physics, FOC	Yes
PROFIBUS DP	
Node addresses	1 to 125 permitted
Automatic detection of transmission speed	Yes
PROFIBUS DP, output current, max.	Not applicable
Transmission rate, max.	12 Mbit/s ; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 12 Mbit/s
Transmission procedure	FOC, wavelength 660 nm
SYNC capability	Yes
FREECE capability	Yes
Direct data exchange (slave-to-slave communication)	Yes ; Sender
PROFIBUS DP	Optical, 2 x duplex sockets
1st interface	
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
Communication functions	

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Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Isolation	
Isolation checked with	Isolation voltage 500 V
Degree and class of protection	
IP20	Yes
Ambient conditions	
Operating temperature	
Min.	0 °C
max.	60 °C
Air pressure	
Operating altitude above sea level, max.	3000 m
Configuration	
Configuration software	
STEP 7	Yes
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	360 g
Status	Feb 1, 2014

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