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Data sheet 6ES7153-4BA00-0XB0



SIMATIC DP, Connection ET 200M IM 153-4 PN IO High Feature for max. 12 S7-300 modules, supports fail-safe module, HART modules, shared device, Medium Redundancy Protocol

General information	
Product type designation	IM 153-4 PN HF
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0302H
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	In a construction with grounded reference potential, a fuse is necessary for redundant interface modules (Recommendation: 2.5 A)
Mains buffering	
● Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	600 mA; with 24 V DC supply
Inrush current, typ.	4 A
I^2t	0.09 $A^2 \cdot s$
output voltage / header	
Rated value (DC)	5 V
Output current	
for backplane bus (5 V DC), max.	1.5 A
Power loss	
Power loss, typ.	6 W
Address area	
Addressing volume	
● Inputs	672 byte; Extended HART user data
● Outputs	192 byte
Hardware configuration	
Number of modules per DP slave interface, max.	12
Protocols	
Bus protocol/transmission protocol	PROFINET IO
Protocols (Ethernet)	
● TCP/IP	Yes
● SNMP	Yes
● LLDP	Yes
● ping	Yes
● ARP	Yes
PROFINET IO Device	
Services	
— IRT	Yes
— PROFIenergy	No

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— Prioritized startup	Yes
— Shared device	Yes
— Number of IO Controllers with shared device, max.	2
Redundancy mode	
● PROFINET system redundancy (S2)	Yes; on S7-400H
Media redundancy	
— MRP	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
● LINK LED	Yes; green LED
● RX/TX LED	Yes; Yellow LED
● for module diagnostics	Yes
Potential separation	
Potential separation exists	Yes; Only direction PROFINET, RWB is not separated
Isolation	
Isolation tested with	Between PROFINET and 24 V supply: 1 500 V AC, between functional grounding and 24 V supply: 500 V DC
Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	60 °C
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	2 000 m
Dimensions	
Width	40 mm
Height	125 mm
Depth	118 mm
Weights	
Weight, approx.	215 g

last modified: 8/8/2023

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