

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 ² t	0.09 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.	6 W
Address area	
Addressing volume	
<ul style="list-style-type: none"> • Inputs • Outputs 	672 byte; Extended HART user data 192 byte
Hardware configuration	
Number of modules per DP slave interface, max.	12
Protocols	
Bus protocol/transmission protocol	PROFINET IO
Protocols (Ethernet)	
<ul style="list-style-type: none"> • TCP/IP • SNMP • LLDP • ping • ARP 	Yes Yes Yes Yes Yes
PROFINET IO Device	
Services	
<ul style="list-style-type: none"> — IRT — PROFINET energy — Prioritized startup — Shared device — Number of IO Controllers with shared device, max. 	Yes No Yes Yes 2
Redundancy mode	
<ul style="list-style-type: none"> • PROFINET system redundancy (S2) 	Yes
Media redundancy	
<ul style="list-style-type: none"> — MRP 	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
<ul style="list-style-type: none"> • LINK LED • RX/TX LED • for module diagnostics 	Yes; green LED Yes; Yellow LED 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
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