SIEMENS

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
• 24 V DC	Yes
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
I²t	0.09 A²·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

• 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

Interrupts/diagnostics/status information

Diagnostics indication LED

• for module diagnostics	Yes
• Connection to network LINK (green)	Yes
• Transmit/receive RX/TX (yellow)	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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