

Data sheet

6ES7153-4BA00-0XB0



*** spare part *** SIMATIC DP, connection ET 200M IM 153-4 PN IO High Feature for max. 12 S7-300 modules, supports fail-safe modules, 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	
<ul style="list-style-type: none"> 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 ·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 	672 byte; Extended HART user data
<ul style="list-style-type: none"> Outputs 	192 byte
Hardware configuration	
number of modules per DP device interface, max.	12
1. Interface	
PROFINET IO Device	
Services	
— IRT	Yes
— PROFinergy	No
— Prioritized startup	Yes
— Shared device	Yes
— Number of IO Controllers with shared device, max.	2
Protocols	
Bus protocol/transmission protocol	PROFINET IO
Protocols (Ethernet)	

• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
• ping	Yes
• ARP	Yes
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
Classifications	

	Version	Classification
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates	
General Product Approval	

[Manufacturer Declaration](#)



[Miscellaneous](#)



General Product Approval	EMV
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For use in hazardous locations



[EM](#)



[Miscellaneous](#)

For use in hazardous locations	Maritime application
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[CCC-Ex](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application	Industrial Communication
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[CCS \(China Classification Society\)](#)

[PROFINET](#)

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