

SIPLUS DP ET200M IM153-1 -40...+70°C start up Temp -25°C with conformal coating based on 6ES7153-1AA03-0XB0 . INTERFACE FOR ET 200M, FOR MAX. 8 S7-300 MODULES



Figure similar

General information	
Product type designation	IM 153-1 DP ST
Vendor identification (VendorID)	801Dh
Supply voltage	
Rated value (DC)	Yes
• 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)	not necessary
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	350 mA; At 24 V DC
Inrush current, typ.	2.5 A
I^2t	0.1 A ² ·s

Output voltage	
Rated value (DC)	5 V
Output current	
for backplane bus (5 V DC), max.	1 A
Power loss	
Power loss, typ.	3 W
Address area	
Addressing volume	
• Inputs	128 byte
• Outputs	128 byte
Hardware configuration	
Number of modules per DP slave interface, max.	8
Interfaces	
Transmission procedure	RS 485
PROFIBUS DP	
• Node addresses	1 to 125 permitted
• automatic detection of transmission rate	Yes
• Output current, max.	90 mA
• Transmission rate, max.	12 Mbit/s
• SYNC capability	Yes
• FREEZE capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes; Sender
• Design of electrical connection of PROFIBUS interface	9-pin sub D socket
1. Interface	
PROFIBUS DP slave	
• GSD file	(for DPV1) SIEM801D.GSD; SI01801D.GSG
• automatic baud rate search	Yes
Protocols	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Protocols (Ethernet)	
• TCP/IP	No
Potential separation	
Potential separation exists	Yes
Isolation	
Isolation tested with	Isolation voltage 500 V
Degree and class of protection	

IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • min. • max. • At cold restart, min. 	<p>-40 °C; = Tmin</p> <p>70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use</p> <p>-25 °C</p>
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • min. • max. 	<p>-40 °C</p> <p>70 °C</p>
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude 	<p>5 000 m</p> <p>Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)</p>
Relative humidity	
<ul style="list-style-type: none"> • With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Use in stationary industrial systems	
<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 	<p>Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request</p> <p>Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 3S4 incl. sand, dust, *</p>
Use on ships/at sea	
<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 	<p>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</p> <p>Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 6S3 incl. sand, dust; *</p>
Usage in industrial process technology	
<ul style="list-style-type: none"> — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	<p>Yes; Class 3 (excluding trichlorethylene)</p> <p>Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)</p>
Remark	
<ul style="list-style-type: none"> — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!

Configuration

Configuration software

- STEP 7

STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file

Dimensions

Width	40 mm
Height	125 mm
Depth	117 mm

Weights

Weight, approx.	360 g
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last modified: 11/25/2019