

SIPLUS DP ET200M IM153-1 -40...+70 DGR C START UP TEMP - 25 DGR 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)	
• 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 <sup>2</sup> ·s

<b>Output voltage</b>	
Rated value (DC)	5 V
<b>Output current</b>	
for backplane bus (5 V DC), max.	1 A
<b>Power loss</b>	
Power loss, typ.	3 W
<b>Address area</b>	
Addressing volume	
• Inputs	128 byte
• Outputs	128 byte
<b>Hardware configuration</b>	
Number of modules per DP slave interface, max.	8
<b>Interfaces</b>	
Transmission procedure	RS 485
Interface physics, RS 485	Yes
Interface physics, FOC	No
<b>PROFIBUS DP</b>	
• 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
<b>1. Interface</b>	
DP slave	
• GSD file	(for DPV1) SIEM801D.GSD; SI01801D.GSG
• automatic baud rate search	Yes
<b>Protocols</b>	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
<b>Potential separation</b>	
Potential separation exists	Yes
<b>Isolation</b>	
Isolation tested with	Isolation voltage 500 V
<b>Degree and class of protection</b>	

IP degree of protection	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes
UL approval	Yes; File E239877
FM approval	Yes; CofC 3028431
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	-40 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
• At cold restart, min.	-25 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-40 °C
• max.	70 °C
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	5 000 m
• Ambient air temperature-barometric pressure-altitude	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)
<b>Relative humidity</b>	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Resistance</b>	
<b>Use in stationary industrial systems</b>	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
<b>Use on ships/at sea</b>	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
<b>from supply voltage 1L+</b>	
— Note regarding classification of environmental conditions acc. to EN 60721	* 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

**last modified:** 05/16/2018