



Figure similar

\*\*\*spare part\*\*\* SIPLUS ET 200S IM 151-1 standard based on 6ES7151-1AA06-0AB0 with conformal coating, -25...+70 °C, interface module incl. termination module data volume of 244 bytes each for inputs and outputs; max. 63 I/O modules PROFIBUS DP V0 and V1 up to 2 m width can be connected; bus connection via 9-pin D-sub

General information	
Product type designation	IM 151-1 ST
Vendor identification (VendorID)	806Ah
Product function	
• Isochronous mode	No
Supply voltage	
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
from supply voltage 1L+, max.	200 mA
Power loss	
Power loss, typ.	3.3 W
Address area	
Addressing volume	
• Inputs	244 byte
• Outputs	244 byte
Interfaces	
Interfaces/bus type	PROFIBUS DP
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s
PROFIBUS DP	
• Cable length, max.	1 200 m
1. Interface	
Interface types	
• RS 485	Yes
• Output current of the interface, max.	80 mA
• Design of the connection	9-pin sub D socket
Protocols	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave communication)	Yes
Interrupts/diagnostics/status information	
Alarms	Yes

Diagnostics function	Yes	
Diagnostics indication LED		
<ul style="list-style-type: none"> <li>• Bus fault BF (red)</li> <li>• Group error SF (red)</li> <li>• Monitoring 24 V voltage supply ON (green)</li> </ul>	Yes Yes Yes	
<b>Potential separation</b>		
between backplane bus and electronics	No	
between electronic block and PROFIBUS DP	Yes	
between supply voltage and electronics	No	
<b>Isolation</b>		
Isolation tested with	500 V DC	
<b>Standards, approvals, certificates</b>		
CE mark	Yes	
<b>Ambient conditions</b>		
Ambient temperature during operation		
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	-25 °C; = Tmin 70 °C; = Tmax	
Altitude during operation relating to sea level		
<ul style="list-style-type: none"> <li>• Installation altitude above sea level, max.</li> <li>• Ambient air temperature-barometric pressure-altitude</li> </ul>	5 000 m 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)	
Relative humidity		
<ul style="list-style-type: none"> <li>• With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation	
<b>Resistance</b>		
Use in stationary industrial systems		
<ul style="list-style-type: none"> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to chemically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, *	
Use on ships/at sea		
<ul style="list-style-type: none"> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to chemically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; *	
Usage in industrial process technology		
<ul style="list-style-type: none"> <li>— Against chemically active substances acc. to EN 60654-4</li> <li>— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Class 3 (excluding trichlorethylene) 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)	
Remark		
<ul style="list-style-type: none"> <li>— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!	
<b>Dimensions</b>		
Width	45 mm	
Height	119.5 mm	
Depth	75 mm	
<b>Weights</b>		
Weight, approx.	150 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
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	EMV
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[Manufacturer Declaration](#)



[China RoHS](#)



**For use in hazardous locations**

[CCC-Ex](#)

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