## **SIEMENS**

## Data sheet

## 6AG1155-5BA00-2AB0

SIPLUS ET 200MP -40...+60°C with conformal coating based on 6ES7155-5BA00-0AB0 . PROFIBUS connection IM 155-5 DP ST for max. 12 S7-1500 modules



General information		
Product type designation	IM 155-5 DP ST	
HW functional status	01	
Firmware version	V2.0.0	
Vendor identification (VendorID)	81AAh	
Product function		
● I&M data	Yes; I&M0 to I&M3	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated as of version</li> </ul>	V13 / V13	
<ul> <li>STEP 7 configurable/integrated as of version</li> </ul>	V5.5 SP3 / -	
<ul> <li>PROFIBUS as of GSD version/GSD revision</li> </ul>	V1.0 / V5.1	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	20.4 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Mains buffering		
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms	

Input current	
Current consumption (rated value)	0.2 A; at 24 V DC and without load
Current consumption, max.	1.2 A; at 20.4 V DC and max. load
Inrush current, max.	4 A
l²t	0.09 A <sup>2</sup> ·s
from interface 5 V DC, max.	80 mA
Power	
Infeed power to the backplane bus	14 W
Power loss	
Power loss, typ.	4 W; Typical
Address area	
Address space per module	
<ul> <li>Address space per module, max.</li> </ul>	128 byte; per input / output
Address space per station	
<ul> <li>Address space per station, max.</li> </ul>	244 byte; per input / output
Hardware configuration	
System power supply can be plugged in to left of IM	No
Number of permissible power segments	1
Rack	
<ul> <li>Modules per rack, max.</li> </ul>	12; I/O modules
Interfaces	
Number of PROFIBUS interfaces	1
1. Interface	
Protocols	X
PROFIBUS DP slave	Yes
Interface types	
RS 485	
• Transmission rate, max.	12 Mbit/s
Protocols	
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— DPV1	Yes
Interrupts/diagnostics/status information	Vez
Status indicator	Yes
Status indicator Alarms	Yes
Status indicator	

• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
MAINT LED	Yes; Yellow LED
Potential separation	
between backplane bus and electronics	No
between PROFIBUS DP and all other circuit	Yes
components between supply and all other circuits	No
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C; = Tmax
Altitude during operation relating to sea level	
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 080 hPa 795 hPa (-1 000 m +2 000 m) //
altitude	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	400 % Dillips less dependies / fact / second is is in
<ul> <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
Resistance	
Coolants and lubricants	
— Resistant to commercially available	Yes; Incl. diesel and oil droplets in the air
coolants and lubricants	
Use in stationary industrial systems	
— to biologically active substances according	Yes; Class 3B2 mold, fungus and dry rot spores (with the
to EN 60721-3-3	exception of fauna); Class 3B3 on request
— to chemically active substances according	Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN
to EN 60721-3-3	60068-2-52 (degree of severity 3). The supplied connector covers
	must remain on the unused interfaces during operation!
— to mechanically active substances	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
according to EN 60721-3-3	must remain on the unused interfaces during operation:
Use on ships/at sea	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class
<ul> <li>— to biologically active substances according to EN 60721-3-6</li> </ul>	6B3 on request
— to chemically active substances according	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-
to EN 60721-3-6	52 (severity degree 3); *
— to mechanically active substances	Yes; Class 6S3 incl. sand, dust; *
according to EN 60721-3-6	

Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes
Remark	
<ul> <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!
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high availability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> </ul>	Yes; Conformal coating, Class A
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	360 g
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