SIEMENS

Data sheet

6AG1151-1BA02-2AB0



SIPLUS ET 200S IM 151 HF based on 6ES7151-1BA02-0AB0 with conformal coating, -25...+60 $^{\circ}\text{C},$

Figure similar

General information	
Product type designation	IM 151-1 HF
Product function	
 Isochronous mode 	Yes
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
1. Interface	
Interface types	
• RS 485	Yes
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	
Bus fault BF (red)	Yes
 Group error SF (red) 	Yes
 Monitoring 24 V voltage supply ON (green) 	Yes

Detautial association	
Potential separation	
between backplane bus and electronics	No
between electronic block and PROFIBUS DP	Yes
between supply voltage and electronics	No
Isolation	
Isolation tested with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	-25 °C; = Tmin
• max.	60 °C; = Tmax
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
 Ambient air temperature-barometric pressure- 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
Polotivo humidity	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity • With condensation, tested in accordance with IEC	100 %; RH incl. condensation/frost permitted (no commissioning in
60068-2-38, max.	bedewed state)
Resistance	,
Use in stationary industrial systems	
to biologically active substances according to	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
EN 60721-3-3	fauna); Class 3B3 on request
— to chemically active substances according to	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-3	(severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
to biologically active substances according to	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on
EN 60721-3-6	request
 to chemically active substances according to 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-6	(severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
Against chemically active substances acc. to	Yes; Class 3 (excluding trichlorethylene)
EN 60654-4	, (
 Environmental conditions for process, 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas
measuring and control systems acc. to ANSI/ISA-	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
71.04 Remark	ievei Los (sait spray) and ievei Los (OII)
Note regarding classification of environmental	* The supplied plug covers must remain in place over the unused
conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	interfaces during operation!
Dimensions	
Width	45 mm
Height	119.5 mm
Depth	75 mm
Weights	
Weight, approx.	150 g
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