SIEMENS

Data sheet

6AG1155-6AU01-2CN0



SIPLUS ET 200SP IM155-6PN HF based on 6ES7155-6AU01-0CN0 with conformal coating, -40...+60 °C, 2-port interface module 1 slot for BusAdapter, max. 64 I/O modules, and 16 ET 200AL modules, S2 redundancy, multi hot swap, 0.25 ms, isochronous mode, optional PN strain relief, including server module (6AG1193-6PA00-7AA0)

Figure similar

General information	
Product type designation	IM 155-6 PN/2 HF
Firmware version	
FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
 Module swapping during operation (hot swapping) 	Yes; Multi-hot swapping
 Isochronous mode 	Yes
Tool changer	Yes; Docking station and docking unit
 Local coupling, IO data 	No
Local coupling, data records	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275
Configuration control	
via dataset	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	10 ms
Input current	
Current consumption, max.	700 mA
Inrush current, max.	4.5 A
l²t	0.25 A²-s
Power loss	
Power loss, typ.	2.4 W
Address area	
Address space per module	
Address space per module, max.	288 byte; For input and output data respectively
Address space per station	
Address space per station, max.	1 440 byte; Dependent on configuration
Hardware configuration	
Rack	
Modules per rack, max.	64; + 16 ET 200AL modules
Submodules	
Number of submodules per station, max.	256
Time stamping	

Accuracy	10 ms
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	i, 2 porte (emicily
Interface types	
Number of ports	2; via BusAdapter
• integrated switch	Yes
BusAdapter (PROFINET)	Yes; Compatible BusAdapter: BA 2x RJ45, BA 2x FC, BA 2x SCRJ, BA SCRJ /
• Bushdapter (FNOT INCT)	RJ45, BA SCRJ / FC, BA 2x LC, BA LC / RJ45, BA LC / FC
Protocols	
PROFINET IO Device	Yes
Open IE communication	Yes
Media redundancy	Yes; PROFINET MRP
PROFINET IO Device	
Services	
— IRT	Yes; 250 µs, 500 µs, 1 ms, 2 ms, 4 ms additionally with IRT with high
	performance: 250 µs to 4 ms in 125 µs frame
— PROFlenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
Number of IO Controllers with shared device, max.	4
Interface types	
RJ 45 (Ethernet)	
Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• 10 Mbps	No
• 100 Mbps	Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
 Autonegotiation 	Yes
Autocrossing	Yes
Protocols	
Number of connections	
 Number of MtM communication relationships/connections, max. 	16
Redundancy mode	
 PROFINET system redundancy (S2) 	Yes; NAP S2
 PROFINET system redundancy (R1) 	No
H-Sync forwarding	Yes
Media redundancy	
— MRP	Yes
— MRPD	No
Open IE communication	
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
Isochronous mode	
Equidistance	Yes
shortest clock pulse	250 μs
max. cycle	4 ms
Bus cycle time (TDP), min.	250 μs
Jitter, max.	1 µs
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
MAINT LED	Yes; Yellow LED
 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED
 Connection display LINK TX/RX 	Yes; 2x green link LEDs on BusAdapter
Potential separation	
between backplane bus and electronics	No

Yes No
707 V DC (type test)
(6)
3
According to Security Level 1 Test Cases V1.1.1
-40 °C; = Tmin (incl. condensation/frost)
60 °C; = Tmax
-40 °C; = Tmin (incl. condensation/frost)
50 °C; = Tmax
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)
100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Yes; Incl. diesel and oil droplets in the air
Voca Close 2D2 model fragues and describe and all the second states of t
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, *
Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity
degree 3); *
Yes; Class 6S3 incl. sand, dust; *
Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
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)
* The supplied plug covers must remain in place over the unused interfaces during operation!
Yes; Class 2 for high reliability
Yes; Type 1 protection
Yes; Discoloration of coating possible during service life
Yes; Conformal coating, Class A
Yes; + 16 ET 200AL modules

Dimensions		
Width	50 mm	
Height	117 mm	
Depth	74 mm	
Weights		
Weight, approx.	120 g; without BusAdapter	

last modified: 3/31/2023 🖸