SIEMENS

Data sheet

6AG1332-5HB01-2AB0



SIPLUS S7-300 SM 332-20-pole -25...+70 $^{\circ}$ C With conformal coating based on 6ES7332-5HB01-0AB0 . Analog output Isolated, "2 AQ, U/I; Resolution 11/12 bit 20-pole, removing/inserting with active backplane bus possible

Figure similar

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V; A power supply according to EN 50155 shall be used for railway applications
 Reverse polarity protection 	Yes
Input current	
from load voltage L+ (without load), max.	135 mA
from backplane bus 5 V DC, max.	60 mA
Power loss	
Power loss, typ.	3 W
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Current output, no-load voltage, max.	18 V
Output ranges, voltage	
• 0 to 10 V	Yes
• 1 V to 5 V	Yes
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 kΩ
 with voltage outputs, capacitive load, max. 	1 μF
with current outputs, max.	500 Ω
 with current outputs, inductive load, max. 	10 mH
Cable length	
shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	12 bit; ± 10 V, ± 20 mA, 4 mA to 20 mA, 1 V to 5 V: 11 bit + sign; 0 V to 10 V, 0 mA to 20 mA: 12 bit
Conversion time (per channel)	0.8 ms
Settling time	
 for resistive load 	0.2 ms

• for capacitive load • for inductive load • for inductive load 0.5 ms; 0.5 ms (1 mH); 3.3 ms (10 mH) Errors/accuracies Operational error limit in overall temperature range • Voltage, relative to output range, (+/-) • Current, relative to output range, (+/-) • Current, relative to output range, (+/-) • Voltage, relative to output range, (+/-) • Current, relative t	
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Standards, approvals, certificates CE mark UL approval PCM (formerly C-TICK) Yes Yes Yes Yes Yes Yes Yes	
CE mark Yes UL approval Yes; File E239877 RCM (formerly C-TICK) Yes	
UL approval Yes; File E239877 RCM (formerly C-TICK) Yes	
RCM (formerly C-TICK) Yes	
KC approval Yes	
EAC (formerly Gost-R) Yes	
Railway application	
• EN 50155 Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category	1.
Class A/B, EN 50155:2007 (see SIOS entry 109755985)	.,
Ambient conditions	
Ambient temperature during operation	
• min25 °C; = Tmin	
• max. 70 °C; = Tmax; for use on railway vehicles according to EN50155, the	
rated temperature range -25 +55 °C (T1) or 60 °C @	
UL/ULhaz/ATEX/FM use applies	
Ambient temperature during storage/transportation • min. -40 °C	
70 00	
max. 70 °C 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	า
(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 (no commissioning under	
60068-2-38, max. condensation conditions)	
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 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 Yes; Class 3S4 incl. sand, dust, *	
EN 60721-3-3	

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Use on land craft, rail vehicles and special-purpose vehic		
 to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request	
 to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *	
 to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *	
Use on ships/at sea		
 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; *	
Usage in industrial process technology		
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)	
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	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		
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!	
Connection method		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	220 g	

1/16/2021

last modified: