SIEMENS

Data sheet

6AG1321-7BH01-4AS0



SIPLUS S7-300 SM 321 16DI based on 6ES7321-7BH01-0AB0 with conformal coating, 0...+60 °C, 0-1 threshold at approx. 11.2 V, digital input SM 321, isolated, 16 DI; 24 V DC, 1x 20-pole, hardware interrupt, diagnostics, suitable for isochronous-mode operation

Figure similar

1 % 110 110	
General information	
based on	6ES7321-7BH01-0AB0
Supply voltage	
Load voltage L+	
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
Input current	
from load voltage L+ (without load), max.	90 mA
from backplane bus 5 V DC, max.	130 mA
Encoder supply	
Number of outputs	2
Type of output voltage	L+ (-2.5 V)
Short-circuit protection	Yes; Electronic
additional (redundant) feed	Yes
Output current	
Rated value	120 mA
 permissible range, lower limit 	0 mA
 permissible range, upper limit 	150 mA
Power loss	
Power loss, typ.	4 W
Digital inputs	
Number of digital inputs	16
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 60 °C, max.	16
vertical installation	
— up to 40 °C, max.	16
Input voltage	
Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-30 +11.2 V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	

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Alarms ● Diagnostic alarm Yes; Parameterizable	
Diagnostic alarm Yes; Parameterizable	
Hardware interrupt Yes: Parameterizable	
Diagnoses	
Diagnostic information readable Yes	
Wire-break Yes; to I< 1 mA	
Diagnostics indication LED	
• Group error SF (red) Yes	
Status indicator digital input (green) Yes	
Encoder supply Vs (green) Yes	
Potential separation	
Potential separation digital inputs	
• between the channels No	
• between the channels, in groups of 16	
between the channels and backplane bus Yes; Optocoupler	
Isolation	
Isolation tested with 500 V DC	
Standards, approvals, certificates CE mark Yes	
UL approval PCM (formerly C-TICK) Yes; File E239877 Yes	
KC approval Yes EAC (formerly Gost-R) Yes	
Ambient conditions	
Ambient temperature during operation	
• min. 0 °C; = Tmin	
• max. 60 °C; = Tmax	
Ambient temperature during storage/transportation	
• max. 70 °C	
Altitude during operation relating to sea level	
• Installation altitude above sea level, max. 5 000 m	
 Ambient air temperature-barometric pressure-altitude Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax at 658 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax at 658 hPa 540 hPa (+3 500 m +5 000 m) 	
Relative humidity	
• With condensation, tested in accordance with IEC 60068- 2-38, max. 100 %; RH incl. condensation/frost (no commissioning under condensations)	tion
Resistance	
Use in stationary industrial systems	
— to biologically active substances according to EN Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of Class 3B3 on request	iauna);
— to chemically active substances according to EN Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (se degree 3); *	verity
— to mechanically active substances according to EN Yes; Class 3S4 incl. sand, dust, * 60721-3-3	
Use on ships/at sea — to biologically active substances according to EN Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 c	

request
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 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!
20-pin
40 mm
125 mm
120 mm
200 g

last modified:

