SIEMENS

Data sheet

6AG1321-7BH01-4AS0



SIPLUS S7-300 SM321 16DE 0-1 LEVEL AT ABOUT 11.2V WITH CONFORMAL COATING BASED ON 6ES7321-7BH01-0AB0 . DIGITAL INPUT SM 321, GALVANICALLY ISOLATED, 16 DI, DC 24V, 1 X 20 PIN, PROCESS INTERRUPT, DIAGNOSTICS, FIT FOR ISOCHRONE MODE

Figure similar

100.		
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	
Input current		
from load voltage L+ (without load), max.	90 mA	
from backplane bus 5 V DC, max.	130 mA	
Power losses		
Power loss, typ.	4 W	
Digital inputs		
Number of digital inputs	16	
Input characteristic curve in accordance with IEC 61131, type 2	Yes	
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		

a fan sinnal HAH, fun	7 mA	
• for signal "1", typ.	7 IIIA	
Input delay (for rated value of input voltage)		
for standard inputs	Very 0.4 / 0.5 / 2./45 / 20 mg	
— Parameterizable	Yes; 0.1 / 0.5 / 3 / 15 / 20 ms	
Cable length	4 000	
• shielded, max.	1 000 m	
• Unshielded, max.	600 m	
Encoder		
Connectable encoders		
• 2-wire sensor	Yes	
— Permissible quiescent current (2-wire	2 mA	
sensor), max.		
Isochronous mode		
Isochronous operation (application synchronized up	Yes	
to terminal)		
Interrupts/diagnostics/status information		
Alarms		
Alarms	Yes	
Diagnostic alarm	Yes; Parameterizable	
Hardware interrupt	Yes; Parameterizable	
Diagnostic messages		
Diagnostic functions	Yes; Parameterizable	
Diagnostics indication LED		
Group error SF (red)	Yes	
 Status indicator digital input (green) 	Yes	
Galvanic isolation		
Galvanic isolation digital inputs		
between the channels	No	
 between the channels, in groups of 	16	
between the channels and the backplane bus	Yes; Optocoupler	
Permissible potential difference		
between different circuits	75V DC/60V AC	
Isolation		
Isolation checked with	500 V DC	
Ctandarda appravala partificatas		
Standards, approvals, certificates CE mark	Yes	
KC approval	Yes	
UL approval	Yes; File E239877	
RCM (formerly C-TICK)	Yes	
FM approval	Yes; CofC 3028431	
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EAC (formerly Gost-R)	Yes	
Ambient conditions		
Ambient temperature in operation		
• Min.	0 °C; = Tmin	
• max.	60 °C; = Tmax	
Extended ambient conditions		
 Relative to ambient temperature-atmospheric pressure-installation altitude 	Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m +5000 m)	
Relative humidity		
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
Resistance		
 against biologically active substances / conformity with EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!	
 against chemically active substances / conformity with EN 60721-3-3 	Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!	
 against mechanically active substances / conformity with EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on 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.	200 g	
last modified:	12.03.2015	

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