SIEMENS

Data sheet

6AG1321-1FF01-2AA0

SIPLUS S7-300 SM321 - 20-POLE -40 ... +70 DGR C WITH CONFORMAL COATING CONFORMITY TO EN50155 T1 CAT 1 CL A/B BASED ON 6ES7321-1FF01-0AA0 . DIGITAL INPUT OPTICALLY ISOLATE 8 DI, 120V/230V AC, 1 X 20 PIN



Figure similar

Supply voltage		
Load voltage L1		
• Rated value (AC)	230 V; 120/230V AC	
Input current		
from backplane bus 5 V DC, max.	29 mA	
Power loss		
Power loss, typ.	4.9 W	
Digital inputs		
Number of digital inputs	8	
Input characteristic curve in accordance with IEC	Yes	
61131, type 1		
Number of simultaneously controllable inputs		
horizontal installation		
— up to 60 °C, max.	8; up to 70 °C	
vertical installation		
— up to 40 °C, max.	8	
Input voltage		
Type of input voltage	AC	

• Rated value (AC)	230 V; 120/230V AC
• for signal "0"	0 to 40V
• for signal "1"	79 to 264V
 Frequency range 	47 63 Hz
Input current	
● for signal "1", typ.	6.5 mA; (120 V); 11 mA (230 V)
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	25 ms
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Encoder Connectable encoders	
	Yes
• 2-wire sensor	2 mA
 permissible quiescent current (2-wire sensor), max. 	2 IIIA
Sensor), max.	
Isochronous mode	
Isochronous operation (application synchronized up	No
to terminal)	
Interrupts/diagnostics/status information	
Diagnostic functions	No
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnostics indication LED	
Group error SF (red)	No
 Status indicator digital input (green) 	Yes
D. I. C. L C	
Potential separation Potential separation digital inputs	
between the channels	No
	2
between the channels, in groups of	
between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	4 000 V DC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
FM approval	No

RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
EN 50155	Yes; T1 Cat. 1 Cl. A/B horizontal mounting position
Use in hazardous areas	
• ATEX	No
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °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
• max.	70 °C
Extended ambient conditions	
 relative to ambient temperature-atmospheric pressure-installation altitude 	Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
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 (RH < 75%) 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.	240 g
last modified:	24.02.2016