Product data sheet

6AG1321-1FH00-7AA0

SIPLUS S7-300 SM321 16DI -40 ... +70 DEGREES C WITH COMFORMAL COATING BASED ON 6ES7321-1FH00-0AA0 . DIGITAL INPUT GALVANICALLY ISOLATED 16 DI, AC120/230V, 1 X 20-POLE

Supply voltage		
Load voltage L1		
Rated value (AC)	230 V; 120/230 V AC; all load voltages must have the same phase.	
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	16	
Input characteristic curve in accordance with IEC 61131, type 1	Yes	
Number of simultaneously controllable inputs		
horizontal installation		
up to 40 °C, max.	16	
up to 60 °C, max.	16	
vertical installation		
up to 40 °C, max.	16	
Input voltage		
Type of input voltage	AC	
Rated value, AC	230 V ; 120/230 V AC	
for signal "0"	0 to 40 V	
for signal "1"	79 to 264 V	
Input current		
for signal "1", typ.	6.5 mA; (120V, 60Hz), 16mA (230V, 50Hz)	
Input delay (for rated value of input voltage)		
for standard inputs		
parameterizable	No	
at "0" to "1", min.	25 ms	
at "0" to "1", max.	25 ms	
Cable length		

Cable length, shielded, max.	1000 m	
Cable length unshielded, max.	600 m	
Encoder		
Connectable encoders		
2-wire sensor	Yes	
permissible quiescent current (2-wire sensor), max.	2 mA	
Isochronous mode		
Isochronous mode (application synchronized up to terminal)	No	
Interrupts/diagnostics/status information		
Alarms		
Alarms	No	
Diagnostic alarm	No	
Hardware interrupt	No	
Diagnostic messages		
Diagnostic functions	No	
Diagnostics indication LED		
Group error SF (red)	No	
Status indicator digital input (green)	Yes	
Galvanic isolation		
Galvanic isolation digital inputs		
between the channels	No	
between the channels, in groups of	4	
between the channels and the backplane bus	Yes ; Optocoupler	
Isolation		
Isolation tested with	4000 VDC	
Standards, approvals, certificates		
CE mark	Yes	
KC approval	Yes	
UL approval	Yes ; File E239877	
RCM (former C-TICK)	Yes	
FM approval	Yes; CofC 3028431	
EAC (former Gost-R)	Yes	
EN 50155	No No	
EN 50121-4	No	
Ambient conditions Operating temperature		
Operating temperature	40.00 · Tarin	
min.	-40 °C; = Tmin	
max.	70 °C ; = Tmax; 60 °C @ UL/cUL, ATEX and FM use	

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, maximum	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
Resistance		
to 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!	
to 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!	
to 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	
Status	Jul 29, 2014	