SIEMENS

Product data sheet 6AG1521-1FH00-7AA0

SIPLUS S7-1500,
DIGITAL INPUT MODULE DI16 X AC230V,
16 CHANNELS IN GROUPS OF 4;
INPUT DELAY 20MS;
INPUT TYPE 1 (IEC 61131) -40 ... +70 DEGREE C WITH CONFORMAL COATING BASED ON 6ES7521-1FH00-0AA0

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General information	
Product function	
I&M data	Yes ; I&M0 to I&M3
Power	
Power available from the backplane bus	1 W
Power losses	
Power loss, typ.	4.9 W
Digital inputs	
Number of digital inputs	16 ; > +60 °C, number of simultaneously controllable inputs max. 8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
Rated value, AC	230 V ; 120/230 V AC (47 to 63 Hz)
for signal "0"	0 to 40 V AC
for signal "1"	79 to 264 V AC
Input current	
for signal "1", typ.	11 mA ; At 230 V AC/50 Hz and 6.5 mA at 120 V AC/50 Hz
Input delay (for rated value of input voltage)	
for standard inputs	

Parameterizable	No
at "0" to "1", max.	25 ms
at "1" to "0", max.	25 ms
for interrupt inputs	
Parameterizable	No
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 operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnostic messages	
Monitoring the supply voltage	No
Wire break	No
Short circuit	No
Fuse blown	No
Diagnostics indication LED	
RUN LED	Yes ; Green LED
ERROR LED	Yes ; Red LED
Monitoring the supply voltage	No
Channel status display	Yes ; Green LED
for channel diagnostics	No
for module diagnostics	Yes ; Red LED
Galvanic isolation	
Electrical isolation channels	
between the channels	No
between the channels, in groups of	4
between the channels and the backplane bus	Yes
Ambient conditions	
Operating temperature	

horizontal installation, min.	-40 °C
horizontal installation, max.	70 °C
vertical installation, min.	-40 °C
vertical installation, max.	40 °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, 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!
Decentralized operation	
Supports fast startup	Yes ; 500 ms
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	200 g
Status	May 9, 2014