SIEMENS

Data sheet

6AG1326-1BK02-2AB0

SIPLUS S7-300 SM 326F DI24 40-pole -25...+60 °C (70°C with forced convection) with conformal coating based on 6ES7326-1BK02-0AB0 . Digital input F-DI 24x24 V DC Fail-safe digital input for SIMATIC S7 F-systems with diagnostic alarm



Figure similar

Supply voltage	
Rated value (DC)	24 V
Input current	
from load voltage L+ (without load), max.	450 mA
from backplane bus 5 V DC, max.	100 mA
Encoder supply	
Number of outputs	4; Isolated
Output current	
Rated value	400 mA
Power loss	
Power loss, typ.	10 W
Digital inputs	
Number of digital inputs	24
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	24

— up to 60 °C, max.	24; (at 24 V) or 18 (at 28.8 V)
Input voltage	
 Type of input voltage 	DC
• Rated value (DC)	24 V
● for signal "0"	-30 to +5V
● for signal "1"	+11 to +30V
Input current	
 for signal "0", max. (permissible quiescent current) 	2 mA
● for signal "1", typ.	10 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3.4 ms
— at "1" to "0", max.	3.4 ms
Cable length	
● shielded, max.	200 m
• unshielded, max.	100 m
Encoder Connectable encoders	
	Yes; if short-circuit test is deactivated
• 2-wire sensor	
 permissible quiescent current (2-wire sensor), max. 	2 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	N.
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic information readable	Yes
Diagnostics indication LED	
Fail-safe operation	Yes
• Group error SF (red)	Yes
Ex(i) characteristics	
Maximum values of input circuits (per channel)	
• Ta (permissible ambient temperature), max.	60 °C
Potential separation	
Potential separation digital inputs	
• between the channels	Yes
 between the channels, in groups of 	12
 between the channels and backplane bus 	Yes
Isolation	

Isolation tested with	500 V DC/350 V AC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Highest safety class achievable in safety mode	
• acc. to DIN VDE 0801	AK 6
• acc. to EN 954	Cat. 4
• SIL acc. to IEC 61508	SIL 3
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	60 °C; = Tmax; *+70 °C where forced convection with a minimum air velocity of 0.7 m/s through the modules and rated voltage of 24 V \pm 5 % are ensured. If in the course of maintenance or automatic diagnosis it is determined that the admissible specified parameters have been exceeded, the modules should be subjected to a proof test (function check) by the manufacturer.
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 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	
Use in stationary industrial systems	
 — to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 — to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 — to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Remark	

Remark

 — Note regarding classification of environmental conditions acc. to EN 60721 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high availability
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	442 g
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