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

24 V
450 mA
100 mA
4; Isolated
400 mA
10 W
24
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 +5 V
• 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	
2-wire sensor	Yes; if short-circuit test is deactivated
permissible quiescent current (2-wire	2 mA
sensor), max.	
Interrupts/diagnostics/status information	No.
Diagnostics function Alarms	Yes
	Yes
Diagnostic alarm	Tes
Diagnoses	Vaa
Diagnostic information readable	Yes
Diagnostics indication LED	Vac
• Fail-safe operation	Yes
Group error SF (red)	Yes
Ex(i) characteristics	
Max. values of input circuits for gas group IIC (per chan	nel)
• 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	

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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
 Performance level according to ISO 13849-1 	e
• 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; *



Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Connection method	
required front connector	40-pin
	40-pin
required front connector	40-pin 80 mm
required front connector Dimensions	
required front connector Dimensions Width	80 mm
required front connector Dimensions Width Height	80 mm 125 mm
required front connector Dimensions Width Height Depth	80 mm 125 mm

