SIEMENS

Data sheet

6AG1326-2BF10-2AY0

SIPLUS S7-300 SM 326 10F-DO with conformal coating with conformity with EN 50155 T1 Kat 1 KI A/B based on 6ES7326-2BF10-0AB0 . Digital output 24 V DC/2A PP, fail-safe digital output for SIMATIC S7F systems, with diagnostic alarm, LVV, 1x 40-pole



Figure similar

Supply voltage	
Rated value (DC)	24 V; 1L+
Reverse polarity protection	Yes
Load voltage L+	
Rated value (DC)	24 V; 2L+, 3L+
 Reverse polarity protection 	No
Input current	
from supply voltage 1L+, max.	100 mA
from load voltage 2L+ (without load), max.	100 mA
from load voltage 3L+ (without load), max.	100 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	6 W
Digital outputs	
Number of digital outputs	10
Short-circuit protection	Yes

Switching capacity of the outputs	
● on lamp load, max.	5 W
Output current	
 for signal "1" rated value 	2 A
 for signal "1" permissible range for 0 to 40 °C, min. 	7 mA
 for signal "1" permissible range for 0 to 40 °C, max. 	2.4 A
 for signal "1" permissible range for 40 to 60 °C, min. 	7 mA
 for signal "1" permissible range for 40 to 60 °C, max. 	2.4 A
 for signal "0" residual current, max. 	0.5 mA
Switching frequency	
• with resistive load, max.	25 Hz
 with inductive load, max. 	25 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	10 A
— up to 60 °C, max.	6 A
vertical installation	
— up to 40 °C, max.	5 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
 Diagnostic alarm 	Yes
Diagnostic messages	
 Diagnostic information readable 	Yes
Diagnostics indication LED	
 Fail-safe operation 	Yes
• Group error SF (red)	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Yes
 between the channels, in groups of 	5
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	Yes

Isolation

Isolation tested with

500V AC for 1 min (internal voltage limiting to ±120V)

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 EN 954	Cat. 4	
• SIL acc. to IEC 61508	SIL 3	
Railway application		
• EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007	
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C; = Tmin	
• max.	60 °C; = Tmax; the rated temperature range of -25 +55 °C (T1) applies for the use on railway vehicles according to EN50155	
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 land craft, rail vehicles and special-purpose vehicles		
 to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request	
 — to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *	
 — to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *	
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
 Electronic equipment on rolling stock acc. to EN 50155 	Yes; Class PC2 protective coating acc. to EN 50155:2017
 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	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	330 g
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