SIEMENS

Data sheet

6AG1322-1FH00-7AA0

SIPLUS S7-300 SM 322 16DO -40...+70 °C with conformal coating based on 6ES7322-1FH00-0AA0 . Digital output Isolated 16 DO, 120/230 V AC, 1 A, 1x 20-pole



Figure similar

Supply voltage	
Load voltage L1	
Rated value (AC)	230 V; 120/230 V AC
 permissible range, lower limit (AC) 	79 V
 permissible range, upper limit (AC) 	264 V
Input current	
from load voltage L1 (without load), max.	2 mA
from backplane bus 5 V DC, max.	200 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	16
Switching capacity of the outputs	
• on lamp load, max.	50 W
Output current	
● for signal "1" rated value	1 A

 for signal "1" minimum load current 	10 mA
 for signal "1" permissible surge current, max. 	20 A; with 2 half waves
 for signal "0" residual current, max. 	2 mA
Switching frequency	
• with resistive load, max.	10 Hz
 with inductive load, max. 	0.5 Hz
 on lamp load, max. 	1 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	2 A
— up to 70 °C, max.	1 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information Diagnostics function	Yes; Fuse blown or load voltage missing
Alarms	Tes, Tuse blown of load voltage missing
Diagnostic alarm	No
Diagnostic messages	
Wire-break	No
Short-circuit	No
Fuse blown	Yes
missing load voltage	No
Diagnostics indication LED	
Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	Yes; Red LED for fuse
Group error SF (red)	Yes
Status indicator digital output (green)	Yes
	103
Potential separation	
Potential separation digital outputs	
 between the channels, in groups of 	8
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	4 000 V DC
Standards, approvals, certificates	Yes
CE mark UL approval	Yes; File E239877

RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Railway application	
• EN 50121-4	No
• EN 50155	No
Ambient conditions Ambient temperature during operation	
	-40 °C; = Tmin
• min.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
max. Ambient temperature during storage/transportation	
Ambient temperature during storage/transportation	-40 °C
• min.	-40°C
• max.	70 C
Altitude during operation relating to sea level	5 000 m
Installation altitude above sea level, max.	
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 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	
— 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	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	275 g
last modified:	12/14/2018