SIEMENS

Data sheet

6AG1322-1BH01-2AA0



SIPLUS S7-300 SM 322-20-pole -25...+70 °C With conformal coating based on 6ES7322-1BH01-0AA0 . Digital output Isolated 16 DQ, 24 V DC, 0.5 A, total current 4 A/group (8 A/module)

Figure simila

Supply voltage		
Load voltage L+		
Rated value (DC)	24 V	
 permissible range, lower limit (DC) 	20.4 V	
 permissible range, upper limit (DC) 	28.8 V	
Input current		
from load voltage L+ (without load), max.	80 mA	
from backplane bus 5 V DC, max.	80 mA	
Power loss		
Power loss, typ.	4.9 W	
Digital outputs		
Number of digital outputs	16	
Short-circuit protection	Yes; Electronic	
Response threshold, typ.	1 A	
Limitation of inductive shutdown voltage to	L+ (-53 V)	
Controlling a digital input	Yes	
Switching capacity of the outputs		
● on lamp load, max.	5 W	
Load resistance range		
lower limit	48 Ω	
upper limit	4 kΩ	
Output voltage		
● for signal "1", min.	L+ (-0.8 V)	
Output current		
for signal "1" rated value	0.5 A	
 for signal "1" permissible range for 0 to 40 °C, min. 	5 mA	
 for signal "1" permissible range for 0 to 40 °C, max. 	0.6 A	
 for signal "1" permissible range for 40 to 60 °C, min. 	5 mA	
 for signal "1" permissible range for 40 to 60 °C, max. 	0.6 A	
for signal "1" minimum load current	5 mA	
for signal "0" residual current, max.	0.5 mA	
Output delay with resistive load		
• "0" to "1", max.	100 μs	
• "1" to "0", max.	500 μs	
Parallel switching of two outputs		
for uprating	No	

 for redundant control of a load 	Yes
Switching frequency	100
with resistive load, max.	100 Hz
with resistive load, max. with inductive load, max.	0.5 Hz
 with inductive load, max. with inductive load (acc. to IEC 60947-5-1, DC13), 	0.5 Hz
max.	0.5112
 on lamp load, max. 	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	3 A
— up to 70 °C, max.	3 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	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
 Fuse blown 	No
missing load voltage	No
Diagnostics indication LED	
 Rated load voltage PWR (green) 	No
 Fuse OK FSG (green) 	No
 Status indicator digital output (green) 	Yes
Potential separation	
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	8
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Railway application	
• EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007 (see SIOS entry 109755985)
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
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altitude	(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 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; *	
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	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	190 g	

last modified:

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