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

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Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
 with inductive load (acc. to IEC 60947-5-1, DC13), 	0.5 Hz
max.	40.11-
• 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 No
Alarms	
Diagnostic alarm	No
	140
Diagnoses • Wire-break	No
Vvire-break Short-circuit	No No
	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
	300 V BO
Standards, approvals, certificates	V
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 @
Angle and the company to the state of the st	UL/ULhaz/ATEX/FM use applies
Ambient temperature during storage/transportation	40.00
• 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
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
Deletive humidity	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	

100 %; RH incl. condensation/frost (no commissioning under • With condensation, tested in accordance with IEC 60068-2-38, max. condensation conditions) Resistance Use in stationary industrial systems — to biologically active substances according to Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of EN 60721-3-3 fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 - to chemically active substances according to EN 60721-3-3 (severity degree 3); ' - to mechanically active substances according to Yes; Class 3S4 incl. sand, dust, * EN 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles to biologically active substances according to Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of EN 60721-3-5 fauna); Class 5B3 on request Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); * to chemically active substances according to EN 60721-3-5 - to mechanically active substances according to Yes; Class 5S3 incl. sand, dust; * EN 60721-3-5 Use on ships/at sea Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on — to biologically active substances according to EN 60721-3-6 request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 — to chemically active substances according to EN 60721-3-6 (severity degree 3); ' Yes; Class 6S3 incl. sand, dust; * to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology - Against chemically active substances acc. to Yes; Class 3 (excluding trichlorethylene) EN 60654-4 - Environmental conditions for process, Yes; Level GX group A/B (excluding trichlorethylene; harmful gas measuring and control systems acc. to ANSI/ISAconcentrations 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 * The supplied plug covers must remain in place over the unused conditions acc. to EN 60721, EN 60654-4 and interfaces during operation! ANSI/ISA-71.04 **Dimensions** Width 40 mm Height 125 mm Depth 120 mm **Neights** Weight, approx. 190 g last modified: 1/16/2021