SIEMENS

Data sheet

6AG1322-1BL00-2AA0

SIPLUS S7-300 SM 322 32DQ 40-pole based on 6ES7322-1BL00-0AA0 with conformal coating, -25...+70 °C, digital output isolated, 32 DQ, 24 V DC, 0.5 A, 1x 40-pole, total current 4 A/group (16 A/module)



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.	160 mA
from backplane bus 5 V DC, max.	110 mA
Power loss	
Power loss, typ.	6.6 W
Digital outputs	
Number of digital outputs	32
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; only outputs of the same group
Switching frequency	

• with resistive load, max.	100 Hz
 with inductive load (acc. to IEC 60947-5-1, DC13), max. 	0.5 Hz
 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.	2 A
	2.4
— up to 40°C, max.	
Cable length	1,000 m
	600 m
• unshielded, max.	000 111
	Na
Alarms	No
	NO
Aldinis	No
	NO
Diagnostic information readable	No
	No
Short-circuit	No
missing load voltage	No
Diagnostics indication LED	
Rated load voltage PWR (green)	No
Fuse OK ESG (green)	No
• Group error SF (red)	No
Status indicator digital output (green)	Yes: per channel
Channel fault indicator F (red)	No
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	
CF mark	Yes
	Yes: File F239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
FAC (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 @
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
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
	(Imax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)

• 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 vehic	sles
 — 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 / header	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g
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