SIEMENS

Data sheet

6AG1322-1CF00-7AA0

SIPLUS S7-300 SM 322 8DO 48-125V -25...+70°C with conformal coating based on 6ES7322-1CF00-0AA0 . Digital output isolated, 8 DO, 48-125 V DC, 1.5A, 1x 20-pole



Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	48 V; 48 V DC to 125 V DC
 permissible range, lower limit (DC) 	40 V
 permissible range, upper limit (DC) 	140 V
 Reverse polarity protection 	Yes; through fuse
Input current	
from load voltage L+ (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7.2 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
 Response threshold, typ. 	4.4 A
Limitation of inductive shutdown voltage to	M (-1 V)

Controlling a digital input	Yes	
Spare fuses	6.3 A / 250 V, quick-response, 5x 20 mm	
Switching capacity of the outputs		
• on lamp load, max.	15 W; 15 W (48 V) or 40 W (125 V)	
Output voltage		
• for signal "1", min.	L+ (-1.2 V)	
Output current		
 for signal "1" rated value 	1.5 A	
 for signal "1" permissible range for 0 to 40 °C, min. 	10 mA	
 for signal "1" permissible range for 0 to 40 °C, max. 	1.5 A	
 for signal "1" permissible range for 40 to 60 °C, min. 	10 mA	
 for signal "1" permissible range for 40 to 60 °C, max. 	1.5 A	
 for signal "1" minimum load current 	10 mA	
 for signal "1" permissible surge current, max. 	3 A; for 10 ms	
 for signal "0" residual current, max. 	0.5 mA	
Output delay with resistive load		
• "0" to "1", max.	2 ms	
• "1" to "0", max.	15 ms	
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. 	25 Hz	
 with inductive load, max. 	0.5 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.	6 A	
— up to 50 °C, max.	4 A	
— up to 60 °C, max.	3 A	
— up to 70 °C, max.	1 A	
vertical installation		
— up to 40 °C, max.	4 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
Diagnostic messages	
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
• Group error SF (red)	Yes
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	4
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation Isolation tested with	1 500 V AC
Isolation tested with	1 500 V AC
	1 500 V AC Yes
Isolation tested with Standards, approvals, certificates	
Isolation tested with Standards, approvals, certificates CE mark	Yes
Isolation tested with Standards, approvals, certificates CE mark UL approval	Yes Yes; File E239877
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK)	Yes Yes; File E239877 Yes
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval	Yes Yes; File E239877 Yes Yes
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R)	Yes Yes; File E239877 Yes Yes
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Railway application	Yes Yes; File E239877 Yes Yes Yes
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Railway application • EN 50155	Yes Yes; File E239877 Yes Yes Yes
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Railway application • EN 50155 Ambient conditions	Yes Yes; File E239877 Yes Yes Yes
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Railway application • EN 50155 Ambient conditions Ambient temperature during operation	Yes Yes; File E239877 Yes Yes Yes Yes Yes; T1 Category 1 Class A/B horizontal mounting position
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Railway application • EN 50155 Ambient conditions Ambient temperature during operation • min. • max.	Yes Yes; File E239877 Yes Yes Yes Yes Yes; T1 Category 1 Class A/B horizontal mounting position
Isolation tested with Standards, approvals, certificates CE mark UL approval RCM (formerly C-TICK) KC approval EAC (formerly Gost-R) Railway application • EN 50155 Ambient conditions Ambient temperature during operation • max. Ambient temperature during storage/transportation	Yes Yes; File E239877 Yes Yes Yes Yes Yes; T1 Category 1 Class A/B horizontal mounting position -25 °C 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
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 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 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.	250 g
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