SIEMENS

Data sheet

6AG1322-1CF00-7AA0



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

Figure similar

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General information	
based on	6ES7322-1CF00-0AA0
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

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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	
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	
 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 tested with	1 500 V AC	
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; T1 Category 1 Class A/B horizontal mounting position	
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C	
• 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.	2 000 m	
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 Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); 60721-3-3 Class 3B3 on request - to chemically active substances according to EN Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity 60721-3-3 degree 3); * - to mechanically active substances according to EN Yes; Class 3S4 incl. sand, dust, * 60721-3-3 Use on ships/at sea - to biologically active substances according to EN Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on 60721-3-6 request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity to chemically active substances according to EN 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 EN Yes; Class 3 (excluding trichlorethylene) 60654-4 - Environmental conditions for process, measuring Yes; Level GX group A/B (excluding trichlorethylene; harmful gas and control systems acc. to ANSI/ISA-71.04 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 * The supplied plug covers must remain in place over the unused interfaces conditions acc. to EN 60721, EN 60654-4 and during operation! ANSI/ISA-71.04 required front connector 20-pin Width 40 mm 125 mm Height Depth 120 mm **Neights** Weight, approx. 250 g Classifications

	Version	Classification
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

Manufacturer Declaration







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