SIEMENS

Data sheet

6AG1322-1FF01-7AA0



SIPLUS S7-300 SM 322 8DA 120/ 230 V AC 1A based on 6ES7322-1FF01-0AA0 with conformal coating, -40...+70 °C, digital output isolated, 8 DQ, 120/230 V AC, 1 A, 1x 20-pole

Figure similar

* % III.6.7.12	
General information	
based on	6ES7322-1FF01-0AA0
Supply voltage	
Load voltage L1	
Rated value (AC)	230 V; 120/230 V AC
 permissible range, lower limit (AC) 	93 V
 permissible range, upper limit (AC) 	264 V
 permissible frequency range, lower limit 	47 Hz
 permissible frequency range, upper limit 	63 Hz
Input current	
from load voltage L1 (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Fuse 8 A, 250 V; per group
 required current for fuse shutdown, min. 	40 A
Response time, max.	300 ms
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	5 NEMA compliant
Spare fuses	8 A / quick response
Zero-crossing switch	Yes; Max. 60 V
Switching capacity of the outputs	
on lamp load, max.	50 W
Output voltage	
● for signal "1", min.	L1 (-1.5 V)
for signal "1" (at max. current), min.	L1 (-1.5 V)
◆ for signal "1" (at min. current), min.	L1 (-8.5 V)
Output current	
for signal "1" rated value	2 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. 	2 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 A
for signal "1" minimum load current	10 mA
for signal "1" permissible surge current, max.	20 A; max. 1 AC cycle
for signal "0" residual current, max.	2 mA
Output delay with resistive load	

• "0" to "1", max.	1 AC cycle
• "1" to "0", max.	1 AC cycle
Parallel switching of two outputs	
 for uprating 	No
for redundant control of a load	Yes
Switching frequency	
 with resistive load, max. 	10 Hz
 with inductive load, max. 	0.5 Hz
• with inductive load (acc. to IEC 60947-5-1, AC15), max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	2 A
— up to 70 °C, max.	1.5 A
vertical installation	1.0 A
	2 A
— up to 40 °C, max.	ZA
Cable length	1 000 m
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	Yes; Fuse blown or load voltage missing
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
Fuse blown	Yes
missing load voltage	Yes
Diagnostics indication LED	
Rated load voltage PWR (green)	Yes
• Fuse OK FSG (green)	Yes
Group error SF (red)	Yes
Status indicator digital output (green)	Yes
Potential separation	i es
·	
Potential separation digital outputs	V
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	
·	40 °C
• min.	-40 °C
● max.	70 °C; = Tmax; for use on railway vehicles according to EN 50155, the rated temperature range -25 +55 °C (T1) or 60 °C @ UL/UL hazardous use applies
Ambient temperature during storage/transportation	Composition of the second seco
	-40 °C
• min.	
• max.	70 °C
Altitude during a property of the territory	
Altitude during operation relating to sea level	
Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude	2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)

Relative humidity • With condensation, tested in accordance with IEC 60068-100 %; RH incl. condensation/frost (no commissioning under condensation 2-38, max. conditions) Resistance Use in stationary industrial systems Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); - to biologically active substances according to EN 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 Yes; Class 3 (excluding trichlorethylene) - Against chemically active substances acc. to EN 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) — 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 20-pin required front connector Dimensions Width 40 mm 125 mm Height Depth 120 mm Neights Weight, approx. 275 g Version Classification eClass 14 27-24-22-04 12 27-24-22-04 eClass 27-24-22-04 eClass 9 1 27-24-22-04 eClass 9 eClass 8 27-24-22-04 eClass 7.1 27-24-22-04 27-24-22-04 eClass 6 FC001419 **ETIM** 9 **ETIM** 8 EC001419 **ETIM** 7 EC001419 **IDEA** 4 3566 UNSPSC 32-15-17-05 15

Approvals / Certificates

General Product Approval

Miscellaneous

Manufacturer Declaration







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