SIEMENS

Data sheet

6AG1322-1FH00-7AA0



SIPLUS S7-300 SM 322 16DQ based on 6ES7322-1FH00-0AA0 with conformal coating, -40...+70 $^{\circ}$ C, digital output isolated 16 DQ, 120/230 V AC, 1 A, 1x 20-pole

Figure similar

Supply voltage	
Load voltage L1	
Rated value (AC)	230 V; 120/230 V AC
 permissible range, lower limit (AC) 	79 V
 permissible range, upper limit (AC) 	264 V
Input current	
from load voltage L1 (without load), max.	2 mA
from backplane bus 5 V DC, max.	200 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	16
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.	4 NEMA compliant
Spare fuses	8 A / quick response
Switching capacity of the outputs	
on lamp load, max.	50 W
Output voltage	
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	1 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 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. 	0.5 A
for signal "1" minimum load current	10 mA
for signal "1" permissible surge current, max.	20 A; with 2 half waves
• for signal "0" residual current, max.	2 mA
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. 	10 Hz

 with inductive load, max. 	0.5 Hz
 with inductive load (acc. to IEC 60947-5-1, AC15), 	0.5 Hz
max.	
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 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	
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	No
Diagnostics indication LED	110
Rated load voltage PWR (green)	No
Fuse OK FSG (green)	Yes; Red LED for fuse
Group error SF (red)	Yes
	Yes
Status indicator digital output (green)	165
Potential separation	
Potential separation digital outputs	
 between the channels, in groups of 	8
between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	4 000 V DC
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 50121-4	No
• EN 50155	No
Ambient conditions	110
Ambient temperature during operation	40 °C: – Tmin
• min.	-40 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
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- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 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 / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	275 g

last modified: