SIEMENS

Data sheet

6AG1322-1BF01-2XB0

SIPLUS S7-300 SM 322 (-1BF01) -25...+70 °C with conformal coating based on 6ES7322-1BF01-0AA0 . Digital output SM 322, isolated, 8 DO, 24 V DC, 2A, 1x 20-pole



Figure similar

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.	60 mA
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	6.8 W
Digital outputs	
Number of digital outputs	8
Limitation of inductive shutdown voltage to	L+ (-48 V)
Switching capacity of the outputs	
• on lamp load, max.	10 W
Load resistance range	

• lower limit	12 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
• for signal "1" rated value	2 A
for signal "1" minimum load current	5 mA
• for signal "0" residual current, max.	0.5 mA
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 60 °C, max.	4 A
— up to 70 °C, max.	4 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	
Interrupts/diagnostics/status information Diagnostics function	No
	No
Diagnostics function	No No
Diagnostics function Alarms	
Diagnostics function Alarms • Diagnostic alarm	
Diagnostics function Alarms • Diagnostic alarm Diagnostic messages	No
Diagnostics function Alarms • Diagnostic alarm Diagnostic messages • Wire-break	No No
Diagnostics function Alarms • Diagnostic alarm Diagnostic messages • Wire-break • Short-circuit	No No No
Diagnostics function Alarms • Diagnostic alarm Diagnostic messages • Wire-break • Short-circuit • Fuse blown	No No No
Diagnostics function Alarms Diagnostic alarm Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage	No No No
Diagnostics function Alarms Diagnostic alarm Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage Diagnostics indication LED	No No No No No
Diagnostics function Alarms Diagnostic alarm Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage Diagnostics indication LED Rated load voltage PWR (green)	No No No No No
Diagnostics function Alarms Diagnostic alarm Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage Diagnostics indication LED Rated load voltage PWR (green) Fuse OK FSG (green) Status indicator digital output (green)	No No No No No No No No
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Diagnostics function Alarms Diagnostic alarm Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage Diagnostics indication LED Rated load voltage PWR (green) Fuse OK FSG (green) Status indicator digital output (green) Potential separation Potential separation digital outputs	No No No No No No Ves; per channel
Diagnostics function Alarms Diagnostic alarm Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage Diagnostics indication LED Rated load voltage PWR (green) Fuse OK FSG (green) Status indicator digital output (green) Potential separation Potential separation digital outputs between the channels	No No No No No No Yes; per channel
Diagnostics function Alarms Diagnostic alarm Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage Diagnostics indication LED Rated load voltage PWR (green) Fuse OK FSG (green) Status indicator digital output (green) Potential separation Potential separation digital outputs between the channels between the channels, in groups of between the channels and backplane bus Permissible potential difference	No No No No No No Ves; per channel
Diagnostics function Alarms Diagnostic messages Wire-break Short-circuit Fuse blown missing load voltage Diagnostics indication LED Rated load voltage PWR (green) Fuse OK FSG (green) Status indicator digital output (green) Potential separation Potential separation digital outputs between the channels between the channels, in groups of between the channels and backplane bus	No No No No No No Ves; per channel

Isolation	
Isolation tested with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
Railway application	
• EN 50121-4	No
● EN 50155	No
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C
• max.	70 °C; = Tmax; 60 °C @ UL/cUL 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); *
	Yes; Class 6S3 incl. sand, dust; *
 to mechanically active substances according to EN 60721-3-6 	
according to EN 60721-3-6	* The supplied plug covers must remain in place over the unused interfaces during operation!

 Coatings for printed circuit board assemblies acc. to EN 61086

• Military testing according to MIL-I-46058C, Amendment 7

 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Yes; Class 2 for high availability

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	190 g

12/14/2018

last modified: