## **SIEMENS**

## Data sheet

## 6AG1322-1BH01-2AA0

SIPLUS S7-300 SM322 - 20-POLE -25...+70°C with conformal coating with conformity EN50155 T1 CAT 1 KL A/B based on 6ES7322-1BH01-0AA0 . DIGITAL OUTPUT OPTIC. ISOLATED 16D0, 24V DC, 0.5A, SUM OF CURRENTS 4A/GROUP (8A/MODULE)

Figure similar

Supply voltage	
Load voltage L+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
• permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage L+ (without load), max.	80 mA
from backplane bus 5 V DC, max.	80 mA
Power loss	
Power loss, typ.	4.9 W
Digital outputs	
Number of digital outputs	16
Limitation of inductive shutdown voltage to	L+ (-53 V)
Switching capacity of the outputs	
● on lamp load, max.	5 W
Load resistance range	

lower limit	48 Ω
● upper limit	4 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.8 V)
Output current	
<ul> <li>for signal "1" rated value</li> </ul>	0.5 A
<ul> <li>for signal "1" minimum load current</li> </ul>	5 mA
<ul> <li>for signal "0" residual current, max.</li> </ul>	0.5 mA
Switching frequency	
<ul> <li>with resistive load, max.</li> </ul>	100 Hz
<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	3 A
— up to 70 °C, max.	3 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
<ul> <li>shielded, max.</li> </ul>	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnostic messages	
• Wire-break	No
Short-circuit	No
Fuse blown	No
<ul> <li>missing load voltage</li> </ul>	No
Diagnostics indication LED	
<ul> <li>Rated load voltage PWR (green)</li> </ul>	No
<ul> <li>Fuse OK FSG (green)</li> </ul>	No
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Yes
<ul> <li>between the channels, in groups of</li> </ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler

Permissible potential difference		
between different circuits	75 V DC/60 V AC	
Isolation		
Isolation tested with	500 V DC	
Otendende en en di Gester		
Standards, approvals, certificates CE mark	Yes	
UL approval	Yes; File E239877	
RCM (formerly C-TICK)	Yes	
	Yes	
KC approval EAC (formerly Gost-R)	Yes	
	res	
Railway application	Very Castions 4.5 and 40; no further equations to analy T4	
• EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007	
	Category 1, Class Alb, El 00100.2007	
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 $^\circ$ C (T1) or 60 $^\circ$ 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		
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m	
<ul> <li>Ambient air temperature-barometric pressure-</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) //	
altitude	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		
•	100 %; RH incl. condensation/frost (no commissioning under	
<ul> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	condensation conditions)	
Resistance		
Use in stationary industrial systems		
· ·	Yes; Class 3B2 mold, fungus and dry rot spores (with the	
<ul> <li>— to biologically active substances according to EN 60721-3-3</li> </ul>	exception of fauna); Class 3B3 on request	
<ul> <li>— to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *	
<ul> <li>— to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *	
Use on land craft, rail vehicles and special-purpose vehicles		
— to biologically active substances according	Yes; Class 5B2 mold, fungus and dry rot spores (with the	
to EN 60721-3-5	exception of fauna); Class 5B3 on request	

<ul> <li>— to chemically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *
<ul> <li>— to mechanically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5S3 incl. sand, dust; *
Use on ships/at sea	
<ul> <li>— to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>— to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
<ul> <li>— to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc.</li> <li>to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	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	
<ul> <li>— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* 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.	190 g
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