## **SIEMENS**

## **Data sheet**

## 6AG1322-8BF00-2AB0



SIPLUS S7-300 SM 322-20-pole based on 6ES7322-8BF00-0AB0 with conformal coating, -25...+60  $^{\circ}\text{C},$ 

Figure similar

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
Input current	
from load voltage L+ (without load), max.	90 mA
from backplane bus 5 V DC, max.	70 mA
Power loss	
Power loss, typ.	5 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
Response threshold, typ.	0.75 to 1.5 A
Limitation of inductive shutdown voltage to	L+ (-45 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
on lamp load, max.	5 W
Load resistance range	
<ul> <li>lower limit</li> </ul>	48 Ω
upper limit	3 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.8 to -1.6 V)
Output current	
<ul><li>for signal "1" rated value</li></ul>	0.5 A
<ul> <li>for signal "1" permissible range for 0 to 40 °C, min.</li> </ul>	10 mA
<ul> <li>for signal "1" permissible range for 0 to 40 °C, max.</li> </ul>	0.6 A
<ul> <li>for signal "1" permissible range for 40 to 60 °C, min.</li> </ul>	10 mA
<ul> <li>for signal "1" permissible range for 40 to 60 °C, max.</li> </ul>	0.6 A
<ul><li>for signal "1" minimum load current</li></ul>	10 mA
for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	180 μs
• "1" to "0", max.	245 μs
Parallel switching of two outputs	
<ul><li>for uprating</li></ul>	No
<ul> <li>for redundant control of a load</li> </ul>	Outputs with series diodes only

Outhabite of the surrence	
Switching frequency	Jan II
with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, DC13),</li> </ul>	2 Hz
max.	10 Hz
on lamp load, max.  Total current of the outputs (per group)	ΙΟΠΖ
horizontal installation	
— up to 40 °C, max.	4 A
— up to 40 °C, max.	3 A
— up to 60°C, max.	
vertical installation	2.5 A; (without diode) & 1.5 A (with diode)
— up to 40 °C, max.	4 A
	4 A
Cable length	1 000 m
shielded, max.	600 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnoses	
Diagnostic information readable	Yes
<ul><li>Wire-break</li></ul>	Yes
Short-circuit	Yes
Fuse blown	No
missing load voltage	Yes
Diagnostics indication LED	
<ul> <li>Rated load voltage PWR (green)</li> </ul>	No
<ul><li>Fuse OK FSG (green)</li></ul>	No
<ul> <li>Group error SF (red)</li> </ul>	Yes
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes; per channel
<ul> <li>Channel fault indicator F (red)</li> </ul>	Yes
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels, in groups of</li> </ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	500 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	100
• EN 50155	Ves: Sections 4, 5 and 12: no further agreements apply: T1, Category 1
♥ LIN 30 133	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007 (see SIOS entry 109755985)
Ambient conditions	
Ambient temperature during operation	
min.	-25 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL use
Altitude during operation relating to sea level	. 5 5, 11100, 55 5 6 517001 455
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(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	

Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of - to biologically active substances according to fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 — to chemically active substances according to EN 60721-3-3 (severity degree 3); \* - to mechanically active substances according to Yes; Class 3S4 incl. sand, dust, \* EN 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles - to biologically active substances according to Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of EN 60721-3-5 fauna); Class 5B3 on request - to chemically active substances according to Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); \* EN 60721-3-5 - to mechanically active substances according to Yes; Class 5S3 incl. sand, dust; \* EN 60721-3-5 Use on ships/at sea to biologically active substances according to Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on - to chemically active substances according to Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 EN 60721-3-6 (severity degree 3); \* - to mechanically active substances according to Yes: Class 6S3 incl. sand. dust: \* EN 60721-3-6 Usage in industrial process technology - Against chemically active substances acc. to Yes; Class 3 (excluding trichlorethylene) EN 60654-4 - Environmental conditions for process, Yes; Level GX group A/B (excluding trichlorethylene; harmful gas measuring and control systems acc. to ANSI/ISAconcentrations up to the limits of EN 60721-3-3 class 3C4 permissible); 71.04 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 conditions acc. to EN 60721, EN 60654-4 and interfaces during operation! ANSI/ISA-71.04 connection method / header required front connector 20-pin **Dimensions** Width 40 mm Height 125 mm 120 mm Depth **Neights** 210 g Weight, approx.

1/16/2021

last modified: