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

F # 1115/11	
General information	
based on	6ES7322-8BF00-0AB0
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.	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	
• lower limit	48 Ω
• upper limit	3 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 to -1.6 V)
Output current	
for signal "1" rated value	0.5 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.	0.6 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.	0.6 A
for signal "1" minimum load current	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	
• for uprating	No
 for redundant control of a load 	Outputs with series diodes only

Switching frequency		
with resistive load, max.	100 Hz	
with inductive load, max.	100 Hz 2 Hz	
 with inductive load, max. with inductive load (acc. to IEC 60947-5-1, DC13), max. 	2 Hz	
• on lamp load, max.	10 Hz	
Total current of the outputs (per group)	10112	
horizontal installation		
— up to 40 °C, max.	4 A	
— up to 60 °C, max.	3 A	
— up to 70 °C, max.	2.5 A; (without diode) & 1.5 A (with diode)	
vertical installation		
— up to 40 °C, max.	4 A	
Cable length		
• shielded, max.	1 000 m	
• unshielded, max.	600 m	
Interrupts/diagnostics/status information		
Diagnostics function	Yes; Parameterizable	
Alarms		
Diagnostic alarm	Yes; Parameterizable	
Diagnoses		
Diagnostic information readable	Yes	
Wire-break	Yes	
Short-circuit	Yes	
 Fuse blown 	No	
missing load voltage	Yes	
Diagnostics indication LED		
 Rated load voltage PWR (green) 	No	
 Fuse OK FSG (green) 	No	
 Group error SF (red) 	Yes	
 Status indicator digital output (green) 	Yes; per channel	
Channel fault indicator F (red)	Yes	
Potential separation		
Potential separation digital outputs		
between the channels, in groups of	8	
between the channels and backplane bus	Yes; Optocoupler	
Isolation	- TOO VIDO	
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 • EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class	
J LIN 30 100	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		
 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	V 01 000 11 ()	
 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	
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Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity - to chemically active substances according to EN 60721-3-3 degree 3); * - to mechanically active substances according to EN Yes; Class 3S4 incl. sand, dust, * 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles - to biologically active substances according to EN Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); 60721-3-5 Class 5B3 on request Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); * to chemically active substances according to EN 60721-3-5 - to mechanically active substances according to EN Yes; Class 5S3 incl. sand, dust; * 60721-3-5 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 60721-3-6 degree 3); 3 to mechanically active substances according to EN Yes; Class 6S3 incl. sand, dust; * 60721-3-6 Usage in industrial process technology Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene) 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 required front connector 20-pin Width 40 mm Height 125 mm 120 mm Depth

210 g

	Version	Classification
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
LINSPSC	15	32-15-17-05

Approvals / Certificates

Weights

Weight, approx.

Classifications

General Product Approval

Miscellaneous



Manufacturer Declaration Declaration of Conformity





EMV For use in hazardous locations

<u>KC</u>







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