Data sheet

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



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.	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
response unconsid, typ.	
Limitation of inductive shutdown voltage to	L+ (-45 V)

• 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.	2 Hz
 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)	
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



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Diagnostics function	Yes; Parameterizable		
Alarms	ros, rarametorizado		
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	117		
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			
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 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)		



Ö PNAP

Relative humidity 100 %; RH incl. condensation/frost (no commissioning under • With condensation, tested in accordance with condensation conditions) IEC 60068-2-38, max. Resistance Use in stationary industrial systems — to biologically active substances according Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-— to chemically active substances according 52 (severity degree 3); * to EN 60721-3-3 Yes; Class 3S4 incl. sand, dust, * - to mechanically active substances according to EN 60721-3-3 Use on land craft, rail vehicles and special-purpose vehicles Yes; Class 5B2 mold, fungus and dry rot spores (with the — to biologically active substances according to EN 60721-3-5 exception of fauna); Class 5B3 on request Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 - to chemically active substances according (ST2); * to EN 60721-3-5 - to mechanically active substances Yes; Class 5S3 incl. sand, dust; * according to EN 60721-3-5 Use on ships/at sea Yes; Class 6B2 mold and fungal spores (excluding fauna); Class — to biologically active substances according 6B3 on request to EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-- to chemically active substances according 52 (severity degree 3); * to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; * - to mechanically active substances according to EN 60721-3-6 Usage in industrial process technology Yes; Class 3 (excluding trichlorethylene) - Against chemically active substances acc. to EN 60654-4 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas - Environmental conditions for process, concentrations up to the limits of EN 60721-3-3 class 3C4 measuring and control systems acc. to ANSI/ISA-71.04 permissible); level LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of * The supplied plug covers must remain in place over the unused interfaces during operation! environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Connection method 20-pin required front connector Dimensions Width 40 mm Height 125 mm Depth 120 mm

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Weight, approx. 210 g



last modified: 10/09/2020

