Data sheet

SIPLUS S7-300 SM 322-20-pole -40...+70°C with conformal coating Conformity with EN 50155 T1 Kat 1 KI A/B based on 6ES7322-1HH01-0AA0 . Digital output optically isolated 16 DO, Relay contacts



Figure similar

Supply voltage	
Load voltage L+	
Rated value (DC)	120 V
Load voltage L1	
Rated value (AC)	230 V
Input current	
from supply voltage L+, max.	250 mA
from backplane bus 5 V DC, max.	100 mA
D I	
Power loss	
Power loss Power loss, typ.	4.5 W
	4.5 W
Power loss, typ.	4.5 W 16; Relays
Power loss, typ. Digital outputs	
Power loss, typ. Digital outputs Number of digital outputs	
Power loss, typ. Digital outputs Number of digital outputs Switching capacity of the outputs	16; Relays

for signal "1" minimum load current	10 mA
Switching frequency	
with resistive load, max.	1 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
• mechanical, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 60 °C, max.	8 A
vertical installation	
— up to 40 °C, max.	8 A
Relay outputs	
Rated supply voltage of relay coil L+ (DC)	24 V
 Number of operating cycles, max. 	100 000; 50 000 (24 V DC, at 2 A); 700 000 (120 V AC, at 2 A); 100 000 (230 V AC, at 2 A)
Switching capacity of contacts	
— with inductive load, max.	2 A; 2 A (230 V AC), 2 A (24 V DC)
— with resistive load, max.	2 A; 2 A (230 V AC), 2 A (24 V DC)
Cable length	
• shielded, max.	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
	No
missing load voltage	No
Diagnostics indication LED	No
Diagnostics indication LED • Rated load voltage PWR (green)	No No
Diagnostics indication LED • Rated load voltage PWR (green) • Fuse OK FSG (green)	No No No
Diagnostics indication LED • Rated load voltage PWR (green)	No No
Diagnostics indication LED • Rated load voltage PWR (green) • Fuse OK FSG (green) • Status indicator digital output (green) Potential separation	No No No
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 Yes
Diagnostics indication LED Rated load voltage PWR (green) Fuse OK FSG (green) Status indicator digital output (green) Potential separation	No No No
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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 Yes Yes
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	No No No Yes Yes 8

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
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C
• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM 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. 	2 000 m
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 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 land craft, rail vehicles and special-purpose	vehicles
 to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request
 to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *
 to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 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 mechanically active substances Yes; Class 6S3 incl. sand, dust; * 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, measuring and control systems acc. to concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) ANSI/ISA-71.04 Remark * The supplied plug covers must remain in place over the unused - Note regarding classification of interfaces during operation! environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 required front connector 20-pin Dimensions Width 40 mm Height 125 mm Depth 120 mm Weights Weight, approx. 250 g

08/30/2019

last modified: