## Data sheet

SIPLUS S7-300 SM 322-20-pole -40...+70 °C With conformal coating based on 6ES7322-1HH01-0AA0 . Digital output optically isolated 16 DQ, 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	
Power loss		
Power loss, typ.	4.5 W	
Fower loss, typ.	4.5 VV	
Digital outputs		
Number of digital outputs	16; Relays	
Short-circuit protection	No	
Controlling a digital input	Yes	
Size of motor starters according to NEMA, max.	Size 5 according to NEMA	
Switching capacity of the outputs		

• on lamp load, max.	50 W; 230 V AC
Output current	
• for signal "1" rated value	2 A
• for signal "1" minimum load current	10 mA
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	1 Hz
• with inductive load, max.	0.5 Hz
<ul> <li>With inductive load (to IEC 60947-5-1, DC13/AC15), max.</li> </ul>	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	
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>	24 V
<ul> <li>Contact connection (internal)</li> </ul>	No
<ul> <li>Number of operating cycles, max.</li> </ul>	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)
<ul> <li>Thermal continuous current, max.</li> </ul>	2 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
• Fuse blown	No
missing load voltage	No
Diagnostics indication LED	



• Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No
Status indicator digital output (green)	Yes

<ul> <li>Status indicator digital output (green)</li> </ul>	Yes	
Potential separation		
Potential separation digital outputs		
<ul> <li>between the channels</li> </ul>	Yes	

8 • between the channels, in groups of Yes; Optocoupler • between the channels and backplane bus

ation	
Isolation tested with	1 500 V AC
Standards, approvals, certificates	
CE mark	Yes
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**UL** approval Yes; File E239877 RCM (formerly C-TICK) Yes KC approval Yes EAC (formerly Gost-R) Yes Railway application

Yes; Sections 4, 5 and 12; no further agreements apply; T1, • EN 50155 Category 1, Class A/B, EN 50155:2007 (see SIOS entry 109755985)

Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C; = Tmin
• 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
<ul> <li>Ambient air temperature-barometric pressure- altitude</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
Relative humidity	
<ul> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)

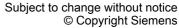
## Resistance Use in stationary industrial systems - to biologically active substances according Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-- to chemically active substances according 52 (severity degree 3); \* to EN 60721-3-3 Yes; Class 3S4 incl. sand, dust, \* — to mechanically active substances

**PNAP** 



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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 exception of fauna); Class 5B3 on request to EN 60721-3-5 Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 - to chemically active substances according (ST2); \* to EN 60721-3-5 Yes; Class 5S3 incl. sand, dust; \* — to mechanically active substances according to EN 60721-3-5 Use on ships/at sea - to biologically active substances according Yes; Class 6B2 mold and fungal spores (excluding fauna); Class to EN 60721-3-6 6B3 on request 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 - Environmental conditions for process, Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 measuring and control systems acc. to 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 Connection method

of medion method		
required front connector	20-pin	
Dimensions		
Diffictions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	250 g	





