

SIPLUS S7-300 SM322 - 20POL -40 ... +70 DGR C WITH CONFORMAL COATING CONFORMITY TO EN50155 T1 CAT 1 CL A/B BASED ON 6ES7322-1HH01-0AA0 . DIGITAL OUTPUT OPTICALLY ISOLAT 16DO, RELAY CONTACTS

Supply voltage	
Load voltage L+	
Rated value (DC)	120 V
Load voltage L1	
Rated value (AC)	230 V
Input current	
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	16 ; Relays
Switching capacity of the outputs	
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
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.	100000 ; 50000 (24 V DC, at 2 A); 700000 (120 V AC, at 2 A); 100000 (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	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	No
Diagnostic messages	
Diagnostics	No
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
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels, in groups of	8
between the channels and the backplane bus	Yes ; Optocoupler
Isolation	
Isolation tested with	1500 V AC
Standards, approvals, certificates	
CE mark	Yes
KC approval	Yes
UL approval	Yes ; File E239877
RCM (former C-TICK)	Yes
FM approval	Yes ; CofC 3028431
EAC (former Gost-R)	Yes
EN 50155	Yes ; T1 Cat. 1 Cl. A/B horizontal mounting position
Ambient conditions	
Operating temperature	
min.	-40 °C
max.	70 °C ; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
Extended ambient conditions	

relative to ambient temperature-atmospheric pressure- installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity	
with condensation, maximum	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with EN 60721-3-3	Yes ; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
to mechanically active substances/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	250 g
Status	Jul 29, 2014