

SIPLUS S7-300 SM322 32 DO - 40-POLE -25 ... +70 DGR C
EN50155 CONFORMITY BASED ON 6ES7322-1BL00-0AA0



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.	160 mA
from backplane bus 5 V DC, max.	110 mA

Power losses

Power loss, typ.	6.6 W
------------------	-------

Digital outputs

Number of digital outputs	32
Limitation of inductive shutdown voltage to	L+ (-53 V)

Switching capacity of the outputs

Lamp load, max.	5 W
-----------------	-----

Load resistance range

lower limit	48 Ω
upper limit	4 k Ω

Output voltage	
for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	0.5 A
for signal "1" permissible range for 0 to 40 °C, max.	0.6 A
for signal "1" minimum load current	5 mA
for signal "0" residual current, max.	0.5 mA
Switching frequency	
with resistive load, max.	100 Hz
on lamp load, max.	10 Hz
Aggregate current of 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 A
vertical installation	
up to 40 °C, max.	2 A
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
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 checked with	500 V DC
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.	-25 °C ; = Tmin
max.	70 °C ; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/ULhaz/ATEX/FM use applies
Extended ambient conditions	
Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 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	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g
Status	Jun 16, 2014