

SIPLUS S7-300 SM322 8DA 120/220 -40 ... +70 DEGREES
C WITH CONFORMAL COATING BASED ON 6ES7322-
1FF01-0AA0

Supply voltage	
Load voltage L1	
Rated value (AC)	230 V ; 120/230 V AC
permissible range, lower limit (AC)	93 V
permissible range, upper limit (AC)	264 V
Input current	
from load voltage L1 (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power losses	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	8
Switching capacity of the outputs	
Lamp load, max.	50 W
Output voltage	
for signal "1", min.	L1 (-1.5 V)
Output current	
for signal "1" rated value	2 A
for signal "1" permissible range for 0 to 40 °C, max.	2 A
for signal "1" minimum load current	10 mA
for signal "1" permissible surge current, max.	20 A ; max. 1 AC cycle
for signal "0" residual current, max.	2 mA
Switching frequency	
with resistive load, max.	10 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	1 Hz
Aggregate current of outputs (per group)	
horizontal installation	
up to 40 °C, max.	4 A
up to 60 °C, max.	2 A
up to 70 °C, max.	1.5 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	Yes
Wire break	No
Short circuit	No
Fuse blown	Yes
Missing load voltage	Yes
Diagnostics indication LED	
Rated load voltage PWR (green)	Yes
Fuse OK FSG (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels, in groups of	4
between the channels and the backplane bus	Yes ; Optocoupler
Isolation	
Isolation checked 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; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/UL hazardous use applies
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.	275 g
Status	Jun 16, 2014