

SIPLUS S7-300 SM322 16DO -40 ... +70 DEGREES C
WITH CONFORMAL COATING BASED ON 6ES7322-
1FH00-0AA0

Supply voltage	
Load voltage L1	
Rated value (AC)	230 V ; 120/230 V AC
permissible range, lower limit (AC)	79 V
permissible range, upper limit (AC)	264 V
Input current	
from load voltage L+ (without load), max.	2 mA
from load voltage L1 (without load), max.	3 mA
from backplane bus 5 V DC, max.	200 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	16
Switching capacity of the outputs	
Lamp load, max.	50 W
Output current	
for signal "1" rated value	1 A
for signal "1" permissible range for 0 to 40 °C, max.	1 A
for signal "1" minimum load current	10 mA
for signal "1" permissible surge current, max.	20 A ; with 2 half waves
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
Total current of the 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 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	No
Diagnostics indication LED	
Rated load voltage PWR (green)	No
Fuse OK FSG (green)	Yes ; Red LED for fuse
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	4000 VDC
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	No
EN 50121-4	No
Ambient conditions	
Operating temperature	
min.	-40 °C ; = Tmin
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)

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	Jul 29, 2014