

SIPLUS S7-300 SM322 8DA 48-125V -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7322-1CF00-0AA0

Supply voltage	
Load voltage L+	
Rated value (DC)	48 V
permissible range, lower limit (DC)	40 V
permissible range, upper limit (DC)	140 V
Input current	
from load voltage L+ (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7.2 W
Digital outputs	
Number of digital outputs	8
Limitation of inductive shutdown voltage to	M (-1 V)
Switching capacity of the outputs	
Lamp load, max.	15 W ; 15 W (48 V) or 40 W (125 V)
Output voltage	
for signal "1", min.	L+ (-1.2 V)
Output current	
for signal "1" rated value	1.5 A
for signal "1" permissible range for 0 to 40 °C, max.	1.5 A
for signal "1" minimum load current	10 mA
for signal "1" permissible surge current, max.	3 A ; for 10 ms
for signal "0" residual current, max.	0.5 mA
Switching frequency	
with resistive load, max.	25 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
up to 40 °C, max.	6 A
up to 50 °C, max.	4 A

up to 60 °C, max.	3 A
up to 70 °C, max.	1 A
<b>vertical installation</b>	
up to 40 °C, max.	4 A
<b>Cable length</b>	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
Diagnostic alarm	No
<b>Diagnostic messages</b>	
Diagnostics	No
Wire-break	No
Short-circuit	No
Fuse blown	No
missing load voltage	No
<b>Diagnostics indication LED</b>	
Rated load voltage PWR (green)	No
Fuse OK FSG (green)	No
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital outputs</b>	
between the channels, in groups of	4
between the channels and the backplane bus	Yes ; Optocoupler
<b>Isolation</b>	
Isolation tested with	1500 V AC
<b>Standards, approvals, certificates</b>	
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
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
min.	-25 °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/ULhaz/ATEX/FM use applies

Extended ambient conditions	
<b>relative to ambient temperature-atmospheric pressure-installation altitude</b>	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity	
<b>with condensation, maximum</b>	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
<b>to biologically active substances/conformity with EN 60721-3-3</b>	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!
<b>to chemically active substances/conformity with EN 60721-3-3</b>	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!
<b>to mechanically active substances/conformity with EN 60721-3-3</b>	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Connection method	
<b>required front connector</b>	20-pin
Dimensions	
<b>Width</b>	40 mm
<b>Height</b>	125 mm
<b>Depth</b>	120 mm
Weights	
<b>Weight, approx.</b>	250 g
Status	Jul 29, 2014