

SIPLUS S7-300 SM322 - 20-POLE -25...+70 DGR C WITH CONFORMAL COATING WITH CONFORMITY EN50155 T1 CAT 1 KL A/B BASED ON 6ES7322-1BH01-0AA0 . DIGITAL OUTPUT OPTIC. ISOLATED 16D0, 24V DC, 0.5A, SUM OF CURRENTS 4A/GROUP (8A/MODULE)

<b>Supply voltage</b>	
<b>Load voltage L+</b>	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
<b>Input current</b>	
from load voltage L+ (without load), max.	80 mA
from backplane bus 5 V DC, max.	80 mA
<b>Power losses</b>	
Power loss, typ.	4.9 W
<b>Digital outputs</b>	
Number of digital outputs	16
Limitation of inductive shutdown voltage to	L+ (-53 V)
<b>Switching capacity of the outputs</b>	
Lamp load, max.	5 W
<b>Load resistance range</b>	
lower limit	48 Ω
upper limit	4 kΩ
<b>Output voltage</b>	
for signal "1", min.	L+ (-0.8 V)
<b>Output current</b>	
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
<b>Switching frequency</b>	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	10 Hz

<b>Aggregate current of outputs (per group)</b>	
<b>horizontal installation</b>	
up to 40 °C, max.	4 A
up to 60 °C, max.	3 A
up to 70 °C, max.	3 A
<b>vertical installation</b>	
up to 40 °C, max.	2 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	8
between the channels and the backplane bus	Yes ; Optocoupler
<b>Isolation</b>	
Isolation checked with	500 V DC
<b>Standards, approvals, certificates</b>	
CE mark	Yes
KC approval	Yes
UL approval	Yes ; File E239877
C-TICK	Yes
FM approval	Yes ; CofC 3028431
Gost-R	Yes
EN 50155	Yes ; T1 Cat. 1 Cl. A/B horizontal mounting position
<b>Ambient conditions</b>	
<b>Operating temperature</b>	

<b>Min.</b>	-25 °C
<b>max.</b>	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
<b>Extended ambient conditions</b>	
<b>Relative to ambient temperature-atmospheric pressure-installation altitude</b>	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)
<b>Relative humidity</b>	
<b>with condensation / maximum</b>	100 %
<b>Resistance</b>	
<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!
<b>Connection method</b>	
<b>required front connector</b>	20-pin
<b>Dimensions</b>	
<b>Width</b>	40 mm
<b>Height</b>	125 mm
<b>Depth</b>	120 mm
<b>Weights</b>	
<b>Weight, approx.</b>	190 g
Status	Feb 1, 2014