## Data sheet

SIPLUS S7-300 SM 322 8DO 48-125V -25...+70°C with conformal coating based on 6ES7322-1CF00-0AA0 . Digital output isolated, 8 DO, 48-125 V DC, 1.5A, 1x 20-pole



Figure similar

Supply voltage		
Load voltage L+		
Rated value (DC)	48 V; 48 V DC to 125 V DC	
<ul><li>permissible range, lower limit (DC)</li></ul>	40 V	
<ul><li>permissible range, upper limit (DC)</li></ul>	140 V	
<ul> <li>Reverse polarity protection</li> </ul>	Yes; through fuse	
In much assume and		
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	
Short-circuit protection	Yes; Electronic	
<ul> <li>Response threshold, typ.</li> </ul>	4.4 A	
Limitation of inductive shutdown voltage to	M (-1 V)	

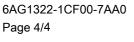
Controlling a digital input	Yes
Spare fuses	6.3 A / 250 V, quick-response, 5x 20 mm
Switching capacity of the outputs	
• on lamp load, max.	15 W; 15 W (48 V) or 40 W (125 V)
Output voltage	
● for signal "1", min.	L+ (-1.2 V)
Output current	
● for signal "1" rated value	1.5 A
<ul> <li>for signal "1" permissible range for 0 to 40 °C, min.</li> </ul>	10 mA
<ul> <li>for signal "1" permissible range for 0 to 40 °C, max.</li> </ul>	1.5 A
<ul> <li>for signal "1" permissible range for 40 to 60 °C, min.</li> </ul>	10 mA
<ul> <li>for signal "1" permissible range for 40 to 60 °C, max.</li> </ul>	1.5 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	3 A; for 10 ms
<ul><li>for signal "0" residual current, max.</li></ul>	0.5 mA
Output delay with resistive load	
● "0" to "1", max.	2 ms
● "1" to "0", max.	15 ms
Parallel switching of two outputs	
• for uprating	No
<ul> <li>for redundant control of a load</li> </ul>	Yes; only outputs of the same group
Switching frequency	
<ul><li>with resistive load, max.</li></ul>	25 Hz
<ul><li>with inductive load, max.</li></ul>	0.5 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, DC13), max.</li> </ul>	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
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m



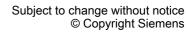
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
• Fuse blown	No
missing load voltage	No
Diagnostics indication LED	
Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No
• Group error SF (red)	Yes
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Yes
<ul><li>between the channels, in groups of</li></ul>	4
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	1 500 V AC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Railway application	V 74.0 1 4.01 A/D1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
● EN 50155	Yes; T1 Category 1 Class A/B horizontal mounting position
• EN 50155  Ambient conditions	Yes; T1 Category 1 Class A/B horizontal mounting position
EN 50155  Ambient conditions  Ambient temperature during operation	
• EN 50155  Ambient conditions	-25 °C
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EN 50155  Ambient conditions  Ambient temperature during operation      min.	-25 °C  70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 °C (T1) or 60 °C @
EN 50155  Ambient conditions  Ambient temperature during operation      min.      max.	-25 °C  70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 +55 °C (T1) or 60 °C @
EN 50155  Ambient conditions  Ambient temperature during operation     • min.     • max.  Ambient temperature during storage/transportation	-25 °C 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
EN 50155  Ambient conditions  Ambient temperature during operation     • min.     • max.  Ambient temperature during storage/transportation     • min.	-25 °C  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  -40 °C
EN 50155  Ambient conditions  Ambient temperature during operation     • min.     • max.  Ambient temperature during storage/transportation     • min.     • max.	-25 °C  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  -40 °C



<ul> <li>Ambient air temperature-barometric pressure- altitude</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
Relative humidity	
<ul> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Use in stationary industrial systems	
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc.</li> <li>to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over 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.	250 g



last modified:



**Ö PNAP** 

10/09/2020