Data sheet



SIPLUS S7-300 SM 322-40-pole -25...+60 °C with conformal coating Conformity with EN 50155 T1 Cat 1 Cl A/B based on 6ES7322-1HF10-0AA0 . Digital output Isolated 8 DO (relay), 1x 40-pole, 24 V DC, 5 A or 230 V AC, 5 A, connectors with spring-loaded terminal can be used as of 6ES7392-1BM01-0AA0

Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	120 V
Load voltage L1	
• Rated value (AC)	230 V
Input current	
from supply voltage L+, max.	125 mA
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	4.2 W
Digital outputs	
Number of digital outputs	8; Relays
Switching capacity of the outputs	
• on lamp load, max.	1 500 W; 230 V AC
Output current	
● for signal "1" rated value	5 A

• for signal "1" minimum load current	5 mA
Switching frequency	
with resistive load, max.	2 Hz
with inductive load, max.	0.5 Hz
● on lamp load, max.	2 Hz
• mechanical, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 60 °C, max.	5 A
— up to 70 °C, max.	5 A
vertical installation	
— up to 40 °C, max.	5 A
Relay outputs	
Rated supply voltage of relay coil L+ (DC)	24 V
 Number of operating cycles, max. 	300 000; 300 000 (24 V DC, at 2 A); 200 000 (120 V AC, at 3 A); 100 000 (230 V AC, at 3 A)
Switching capacity of contacts	
— with inductive load, max.	3 A; 3 A (230 V DC), 2 A (24 V AC)
— with resistive load, max.	8 A; 8 A (230 V DC), 5 A (24 V AC)
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnostic messages	
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
 Status indicator digital output (green) 	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Yes
between the channels, in groups of	1
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	

Isolation tested with	2000 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		
● EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007	
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C	
• max.	60 °C	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Altitude during operation relating to sea level		
 Installation altitude above sea level, max. 	2 000 m	
 Ambient air temperature-barometric pressure- altitude 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
Relative humidity		
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
Resistance		
Use in stationary industrial systems		
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *	
Use on land craft, rail vehicles and special-purpose	vehicles	
 to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request	
 to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *	
 to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *	
Use on ships/at sea		
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	

 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high availability
 Electronic equipment on rolling stock acc. to EN 50155 	Yes; Class PC2 protective coating acc. to EN 50155:2017
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Connection method	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	320 g

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last modified: