

SIMATIC S7-300

SIPLUS S7-300 digital modules

SIPLUS S7-300 SM 322 digital output modules

Overview



- Digital outputs
- For connecting solenoid valves, contactors, small-power motors, lamps and motor starters

Note:

SIPLUS extreme products are based on Siemens Industry standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme-specific information was added.

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Technical specifications

The technical data correspond to those of the based-on modules apart from the values listed in the table:

Based on	6AG1322-1BF01-2XB0 6ES7322-1BF01-0XB0	6AG1322-8BF00-2AB0 6ES7322-8BF00-0AB0	6AG1322-1BH01-2AA0 6ES7322-1BH01-0AA0	6AG1322-1BL00-2AA0 6ES7322-1BL00-0AA0
Ambient conditions				
Operating temperature				
• Min.	-25 °C	-25 °C; = Tmin	-25 °C	-25 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL use	70 °C; = Tmax; 60 °C @ UL/cUL use	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	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	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)			
• Relative to ambient temperature-atmospheric pressure-installation altitude				
• Relative humidity	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)			
- with condensation, maximum				
• 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!			
Based on	6AG1322-1CF00-7AA0 6ES7322-1CF00-0AA0	6AG1322-1HF10-2AA0 6ES7322-1HF10-0AA0	6AG1322-5HF00-4AB0 6ES7322-5HF00-0AB0	6AG1322-1FF01-7AA0 6ES7322-1FF01-0AA0
Ambient conditions				
Operating temperature				
• Min.	-25 °C	-25 °C	0 °C; = Tmin	-40 °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	60 °C	60 °C; = Tmax	70 °C; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/UL hazardous use applies
Extended ambient conditions	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)			
• Relative to ambient temperature-atmospheric pressure-installation altitude				
• Relative humidity	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)			
- with condensation, maximum				
• 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!			

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Technical specifications (continued)

Based on	6AG1322-1CF00-7AA0 6ES7322-1CF00-0AA0	6AG1322-1HF10-2AA0 6ES7322-1HF10-0AA0	6AG1322-5HF00-4AB0 6ES7322-5HF00-0AB0	6AG1322-1FF01-7AA0 6ES7322-1FF01-0AA0
Extended ambient conditions				
• Resistance				
- 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!			
Based on	6AG1322-5FF00-4AB0 6ES7322-5FF00-0AB0	6AG1322-1FH00-7AA0 6ES7322-1FH00-0AA0	6AG1322-1HH01-2AA0 6ES7322-1HH01-0AA0	
Ambient conditions				
Operating temperature				
• Min.	0 °C; = Tmin	-40 °C; = Tmin	-40 °C	
• max.	60 °C; = Tmax	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use	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)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)	
• Relative humidity				
- with condensation, maximum	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)		100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
• 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!			

Ordering data

Article No.

Article No.

SIPLUS S7-300 SM 322 digital output modules

Extended temperature range and exposure to media

8 outputs, 24 V DC, 2 A
 16 outputs, 24 V DC, 0.5 A
 32 outputs, 24 V DC, 0.5 A
 8 outputs, 48 to 125 V DC, 1.5 A
 8 outputs, 120/230 V AC, 1 A
 16 outputs, 120/230 V AC, 1 A
 8 outputs, relay contacts, 5 A
 16 outputs, relay contacts, 8 A
 8 outputs, 24 V DC, 0.5 A, diagnostics-capable

6AG1322-1BF01-2XB0
6AG1322-1BH01-2AA0
6AG1322-1BL00-2AA0
6AG1322-1CF00-7AA0
6AG1322-1FF01-7AA0
6AG1322-1FH00-7AA0
6AG1322-1HF10-2AA0
6AG1322-1HH01-2AA0
6AG1322-8BF00-2AB0

Exposure to media

8 outputs, 120/230 V AC, 2 A
 8 outputs, relay contacts, 5 A, with RC filter, overvoltage protection

Conforms to EN 50155

16 outputs, 24 V DC, 0.5 A, high speed
 32 outputs, 24 V DC, 0.5 A
 8 outputs, relay contacts, 5 A
 16 outputs, relay contacts, 8 A
 8 outputs, 24 V DC, 0.5 A, diagnostics-capable

Accessories

6AG1322-5FF00-4AB0
6AG1322-5HF00-4AB0

6AG1322-1BH01-2AA0

6AG1322-1BL00-2AA0

6AG1322-1HF10-2AA0

6AG1322-1HH01-2AA0

6AG1322-8BF00-2AB0

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