Data sheet

SIPLUS S7-300 SM 326F DO8 -25...+60°C with conformal coating based on 6ES7326-2BF41-0AB0 . Digital output F-DO $8x\ 24\ V$ DC/2A PM fail-safe digital output Sinking-sourcing up to Category 4 (EN 954-1), SIL 3 (IEC 61508)



Figure similar

Supply voltage		
Rated value (DC)	24 V; 1L+	
Reverse polarity protection	Yes	
Load voltage L+		
Rated value (DC)	24 V; 2L+, 3L+	
Reverse polarity protection	No	
Input current		
from supply voltage 1L+, max.	75 mA	
from load voltage 2L+ (without load), max.	100 mA	
from load voltage 3L+ (without load), max.	100 mA	
from backplane bus 5 V DC, max.	100 mA	
Power loss		
Power loss, typ.	12 W	
Digital outputs		
Number of digital outputs	8	
Short-circuit protection	Yes	

Limitation of inductive shutdown voltage to	L+ (-33 V)
Switching capacity of the outputs	
• on lamp load, max.	5 W
Output voltage	
• for signal "1", min.	L+ (-1.0 V)
Output current	
• for signal "1" rated value	2 A
 for signal "1" permissible range for 0 to 40 °C, min. 	7 mA
 for signal "1" permissible range for 0 to 40 °C, max. 	2 A; 2 A for horizontal installation, 1 A for vertical installation
 for signal "1" permissible range for 40 to 60 °C, min. 	7 mA
 for signal "1" permissible range for 40 to 60 °C, max. 	1 A; for horizontal installation
for signal "0" residual current, max.	0.5 mA
Switching frequency	
with resistive load, max.	30 Hz
with inductive load, max.	2 Hz
● on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	7.5 A
— up to 60 °C, max.	5 A
vertical installation	
— up to 40 °C, max.	5 A
Cable length	
• shielded, max.	200 m; 200 m for SIL 3, AK 6, Cat 4
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnostic messages	
Diagnostic information readable	Yes
Diagnostics indication LED	
Fail-safe operation	Yes
• Group error SF (red)	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Yes
 between the channels, in groups of 	4
• between the channels and backplane bus	Yes

• between the channels and the power supply of the electronics

Yes

the electronics	
Isolation	
Isolation tested with	500 V DC/350 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
Highest safety class achievable in safety mode	
● acc. to EN 954	Cat. 4
 Performance level according to ISO 13849-1 	е
• SIL acc. to IEC 61508	SIL 3
Railway application	
● EN 50155	No
Ambient conditions	
Ambient temperature during operation	
● min.	-25 °C
• max.	60 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	2 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
altitude	
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 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; *

Usage in industrial process technology

- Against chemically active substances acc. to EN 60654-4
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04

Yes; Class 3 (excluding trichlorethylene)

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

 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation!

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Connection	method

40-pin

Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm

Weights

Weight, approx. 465 g

last modified: 05/13/2020