

SIPLUS S7-300 SM322 16DO DC24V -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7322-8BH10-0AB0 . SM 322 DIGITAL OUTPUT MODULE, 16 DO, DC 24 V / 0,5A, CAPABLE OF DIAGNOSTICS, WIRE BREAK DETECTION TO 0 AND 1 SIGNAL, 1 X 40-PIN, INTERFACE MODULE IM 153-X HF NECESSARY



Figure similar

Supply voltage

Load voltage L+

• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V

Input current

from load voltage L+ (without load), max.	88 mA
from backplane bus 5 V DC, max.	80 mA

Power losses

Power loss, typ.	5.7 W
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Digital outputs

Number of digital outputs	16
Limitation of inductive shutdown voltage to	L+ (-68 V)

Switching capacity of the outputs

• on lamp load, max.	5 W
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Load resistance range

• lower limit	48 Ω
• upper limit	4 k Ω

Output voltage

• for signal "1", min.	L+ (-0.7 V)
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Output current

• for signal "1" rated value	0.5 A
• for signal "1" permissible range, min.	5 mA
• for signal "1" permissible range, max.	0.6 A

• for signal "0" residual current, max.	0.7 mA
Switching frequency	
• with resistive load, max.	100 Hz
• on lamp load, max.	10 Hz
horizontal installation	
— up to 60 °C, max.	2 A
— up to 70 °C, max.	0.5 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
• shielded, max.	1 000 m
• Unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostics	Yes
• Wire break	Yes
• Short circuit	Yes
• Missing load voltage	Yes
Diagnostics indication LED	
• Rated load voltage PWR (green)	No
Galvanic isolation	
Galvanic isolation digital outputs	
• between the channels, in groups of	4
• between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Ambient temperature in operation	
• Min.	-25 °C; = Tmin
• max.	70 °C; = Tmax; @ 60°C for UL/ATEX/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 - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	

— With condensation, max.

100 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)

Resistance

— against 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!

— against chemically active substances / conformity with EN 60721-3-3

Yes; Class 3C4 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!

— against 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!

Connection method

required front connector

1x 40-pin

Dimensions

Width

40 mm

Height

125 mm

Depth

120 mm

Weights

Weight, approx.

350 g

last modified:

12.03.2015