

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

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 loss	
Power loss, typ.	5.7 W
Digital outputs	
Number of digital outputs	16
Limitation of inductive shutdown voltage to	L+ (-68 V)
Switching capacity of the outputs	
Lamp load, max.	5 TW
Load resistance range	
lower limit	48 Ω
upper limit	4 kΩ
Output voltage	
for signal "1", min.	L+ (-0.7 V)
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
Total current of the outputs (per group)	
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	
Cable length, shielded, max.	1000 m
Cable length 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 tested with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Operating temperature	
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, maximum	100 % ; Relative humidity, incl. condensation / frost permitted (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 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!
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	350 g
Status	Jul 29, 2014