

SIPLUS S7-300 SM326F -25 ... +60 DGR C WITH CONFORMAL COATING BASED ON 6ES7326-2BF01-0AB0 . DIGITAL OUTPUT 10 DO; 24V DC,2A FAIL SAFE DIGITAL OUTPUT FOR SIMATIC S7F-SYSTEMS, WITH DIAGNOSTICS ALARM, 1 X 40-POLE



Supply voltage	
Load voltage L+	
Rated value (DC)	24 V ; 1L+, 2L+, 3L+
Input current	
from load voltage 1L+, max.	70 mA ; from supply voltage
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	10
Short-circuit protection	Yes
Limitation of inductive shutdown voltage to	L+ (-53 V) without series diode, L+ (-33 V) with series diode
Switching capacity of the outputs	
Lamp load, max.	5 W
Output voltage	
for signal "1" with series diode, min.	L+ (-1.8 V)

for signal "1" without series diode, min.	L+ (-1 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.	10 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 ; without series diode, 5 A with series diode
up to 60 °C, max.	5 A ; without series diode, 4 A with series diode
vertical installation	
up to 40 °C, max.	5 A ; without series diode, 4 A with series diode
Cable length	
Cable length, shielded, max.	1000 m ; 200 m for SIL3, AK 6, Cat 4
Cable length unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic information readable	Yes
Diagnostics indication LED	
Fail-safe operation	Yes
Group error SF (red)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	Yes
between the channels, in groups of	5
between the channels and the backplane bus	Yes
between the channels and the power supply of the electronics	Yes
Standards, approvals, certificates	
CE mark	Yes

UL approval	Yes ; File E239877
EN 50155	No
Highest safety class achievable in safety mode	
acc. to DIN VDE 0801	AK 5 and 6
acc. to EN 954	Cat. 4
acc. to IEC 61508	SIL 3
Ambient conditions	
Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity	
with condensation, tested in accordance with IEC 60068-2-38, maximum	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!
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
min.	-25 °C ; = Tmin
max.	60 °C ; = Tmax
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	465 g
Status	Jul 29, 2014