



SIMATIC S7, DIGITAL OUTPUT SM 326,
10 DO;
24V DC, 2A,
FAILSAFE DIGITAL OUTPUT FOR SIMATIC S7F
SYSTEMS WITH DIAGNOST. INTERRUPT,
1 X 40 PIN

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	
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
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	465 g
Status	Jul 12, 2014