



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 losses	
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
Aggregate current of 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
Isolation	
Isolation checked with	500V DC/350V AC

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	Oct 21, 2014