



Figure similar

Spare part SIMATIC S7, Digital output SM 326, 10 DO, 24 V DC, 2A, fail-safe digital output for SIMATIC S7F systems, with diagnostic alarm, 1x 40-pole

Supply voltage	
Rated value (DC)	24 V; 1L+
Reverse polarity protection	Yes
Load voltage L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V; 2L+, 3L+
<ul style="list-style-type: none"> Reverse polarity protection 	No
Input current	
from supply voltage 1L+, max.	70 mA
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	
<ul style="list-style-type: none"> on lamp load, max. 	5 W
Output voltage	
<ul style="list-style-type: none"> for signal "1", min. 	L+ (-1 V) without series diode, L+ (-1.8 V) with series diode
Output current	
<ul style="list-style-type: none"> for signal "1" rated value 	2 A
<ul style="list-style-type: none"> for signal "1" permissible range for 0 to 40 °C, min. 	7 mA
<ul style="list-style-type: none"> for signal "1" permissible range for 0 to 40 °C, max. 	2 A; 2 A for horizontal installation, 1 A for vertical installation
<ul style="list-style-type: none"> for signal "1" permissible range for 40 to 60 °C, min. 	7 mA
<ul style="list-style-type: none"> for signal "1" permissible range for 40 to 60 °C, max. 	1 A; for horizontal installation
<ul style="list-style-type: none"> for signal "0" residual current, max. 	0.5 mA
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. 	10 Hz
<ul style="list-style-type: none"> with inductive load, max. 	2 Hz
<ul style="list-style-type: none"> on lamp load, max. 	10 Hz
Total current of the outputs (per group)	
horizontal installation	
<ul style="list-style-type: none"> up to 40 °C, max. 	7.5 A; without series diode, 5 A with series diode
<ul style="list-style-type: none"> up to 60 °C, max. 	5 A; without series diode, 4 A with series diode
vertical installation	
<ul style="list-style-type: none"> up to 40 °C, max. 	5 A; without series diode, 4 A with series diode
Cable length	

- shielded, max. 1 000 m; 200 m for SIL 3, AK 6, Cat 4
- unshielded, max. 600 m

Interrupts/diagnostics/status information

Alarms	
• Diagnostic alarm	Yes
Diagnoses	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Fail-safe operation	Yes
• Group error SF (red)	Yes

Potential separation

Potential separation digital outputs	
• between the channels	Yes
• between the channels, in groups of	5
• between the channels and backplane bus	Yes
• between the channels and the power supply of the electronics	Yes

Isolation

Isolation tested with	500 V DC/350 V AC
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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
• Performance level according to ISO 13849-1	e
• SIL acc. to IEC 61508	SIL 3

connection method / header

required front connector	40-pin
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Dimensions

Width	80 mm
Height	125 mm
Depth	120 mm

Weights

Weight, approx.	465 g
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last modified: 1/16/2021 