SIEMENS

Data sheet

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SIMATIC S7-1200, Digital output SM 1226, F-DQ 4x 24 V DC 2A, PROFIsafe, 70 mm overall width, up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)

General information		
Product type designation	SM 1226 F-DQ 4x 24 VDC	
Supply voltage		
permissible range, lower limit (DC)	20.4 V	
permissible range, upper limit (DC)	28.8 V	
power supply according to NEC Class 2 required	No	
Input current		
from backplane bus 5 V DC, max.	125 mA	
Digital outputs		
 from load voltage L+, max. 	170 mA	
Power loss		
Power loss, typ.	8 W	
Digital outputs		
Number of digital outputs	4	
• in groups of	1	
Short-circuit protection	Yes	
Switching capacity of the outputs		
• with resistive load, max.	30 Hz	
 on lamp load, max. 	10 Hz	
Output voltage		
Rated value (DC)	24 V	
Output current		
 for signal "1" rated value 	2 A	
 for signal "1" permissible range, max. 	10 mA to 2.4 A	
 for signal "0" residual current, max. 	P-switch: 0.5 mA, maximum; M-switch: 0.5 mA, maximum	
Cable length		
 shielded, max. 	200 m	
• unshielded, max.	200 m	
Interrupts/diagnostics/status information		
Diagnostics indication LED		
for status of the outputs	Yes	
Degree and class of protection		
IP degree of protection	IP20	
Standards, approvals, certificates		
CE mark	Yes	
cULus	Yes	
FM approval	Yes	
Highest safety class achievable in safety mode		
Performance level according to ISO 13849-1	Category 4, PL e	
• SIL acc. to IEC 61508	SIL 3	

Probability of failure (for service life of 20 years and repair time of 100 hours)		
 Low demand mode: PFDavg in accordance with SIL3 	< 1.00E-05	
 — High demand/continuous mode: PFH in accordance with SIL3 	< 4.00E-09	
Ambient conditions		
Free fall		
 Fall height, max. 	0.3 m; five times, in product package	
Ambient temperature during operation		
• min.	0°0	
• max.	55 °C	
 permissible temperature change 	5°C to 55°C, 3°C / minute	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13		
 Storage/transport, min. 	660 hPa	
 Storage/transport, max. 	1 080 hPa	
Relative humidity		
 Operation at 25 °C without condensation, max. 	95 %	
Mechanics/material		
Enclosure material (front)		
Plastic	Yes	
Dimensions		
Width	70 mm	
Height	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	270 g	
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