Data sheet



SIPLUS S7-1200 SM 1226 F-DQ 2x relay -25...+55°C with conformal coating based on 6ES7226-6RA32-0XB0 . F-DQ 2x RLY 5A, PROFIsafe, 70 mm overall width, up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)

Figure similar

General information	
Product type designation	SM 1226, F-DQ 2x relay/5 A
Supply voltage	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from backplane bus 5 V DC, max.	120 mA
Digital outputs	
from load voltage L+, max.	300 mA
Power loss	
Power loss, typ.	10 W
Digital outputs	
Number of digital outputs	2
Short-circuit protection	No
Output voltage	
• Rated value (DC)	5 V DC to 30 V DC

Output current • (or signal "1" rated value • (or signal "1" permissible range, max. Felay outputs • Number of relay outputs Switching capacity of contacts — with inductive load, max. — with resistive load, max. — with resistive load, max. Cable length • shielded, max. • unshielded, max. • permissible trough status information Diagnostics indication LED • for status of the outputs Category 4, PL e Sil. ac. to IEC 61508 Ambient conditions Free fall • Fall height, max. Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • permissible temperature change Ambient temperature during storage/transportation • min. • max. • permissible temperature change Ambient temperature during storage/transportation • min. • max. • permissible temperature change Ambient temperature during storage/transportation • min. • max. • An "C n'max. • An "C n'max. • An "C Altitude during operation relating to sea level • Installation altitude above sea level, max. • An "C Altitude during operation relating to sea level • Installation altitude above sea level, max. • Annient air temperature-barometric pressure-altitude Relative humidity • With condensation, tested in accordance with IEC 60947-5-1, AC-15 2 / 2 / 2 circuits per output 5 / A maximum per circuit and 10 A maximum of all circuits per module 5 / 2 / 2 / 2 circuits per output 5 / 2 / 2 / 2 / 2 circuits per output 5 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	Rated value (AC)	5 V AC to 250 V AC
• for signal "1" permissible range, max. • for signal "1" permissible range, max. • for signal "1" permissible range, max. • Number of relay outputs • Number of relay outputs Switching capacity of contacts — with inductive load, max. — with resistive load, max. — with resistive load, max. • with resistive load, max. • unshielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • of restatus of the outputs Degree and class of protection IP degree of protection IP and the conditions Free fall • Performance level according to ISO 13849-1 • SiL acc. to IEC 61508 Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • permissible temperature change Ambient temperature during storage/transportation • min. • max. • And "C 70 "C Altitude during operation relating to sea level • Installation altitude above sea level, max. • Altitude during operation, tested in accordance with IEC 60068-2-38, max. • With condensation, tested in accordance with IEC 60068-2-38, max. • Or the condensation, tested in accordance with IEC 60068-2-38, max. • With condensation, tested in accordance with IEC 60068-2-38, max.	Output current	
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Number of relay outputs Switching capacity of contacts - with inductive load, max. - with resistive	• for signal "1" permissible range, max.	
Switching capacity of contacts	Relay outputs	
- with inductive load, max. - with resistive load, max. - with resistive load, max. - with resistive load, max. 2 Hz 2 Hz 200 m - shielded, max. - unshielded, max. - version of the outputs	Number of relay outputs	2; 2 circuits per output
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• With condensation, tested in accordance with IEC 60068-2-38, max. 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	· · · · · · · · · · · · · · · · · · ·	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
IEC 60068-2-38, max. condensation conditions)	Relative humidity	
Resistance		
	Resistance	

Coolants and lubricants	
	Von
 Resistant to commercially available coolants and lubricants 	Yes
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high availability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Mechanics/material	
Enclosure material (front)	
• Plastic	Yes
Dimensions	
Width	70 mm
Height	100 mm
Depth	75 mm

Weights
Weight, approx.

last modified:

08/27/2019