SIEMENS

Data sheet

6ES7222-1HF30-0XB0



Spare part SIMATIC S7-1200, Digital output SM 1222, 8 DO, relay 2 A

General information	
Product type designation	SM 1222, DQ 8x relay/2 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.	11 mA/relay coil
Power loss	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	8
	2
Short-circuit protection	No; to be provided externally
Switching capacity of the outputs	
 with resistive load, max. 	2 A
• on lamp load, max.	30 W with DC, 200 W with AC
Output voltage	
 Rated value (DC) 	5 V DC to 30 V DC
Rated value (AC)	5 V AC to 250 V AC
Output current	
● for signal "1" permissible range, max.	2 A
Output delay with resistive load	
• "0" to "1", max.	10 ms
• "1" to "0", max.	10 ms
Total current of the outputs (per group)	
horizontal installation	
— up to 50 °C, max.	10 A; Current per mass
Relay outputs	
 Number of relay outputs 	8
 Rated supply voltage of relay coil L+ (DC) 	24 V
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Switching capacity of contacts	
— with inductive load, max.	2 A
— on lamp load, max.	30 W with DC, 200 W with AC
— with resistive load, max.	2 A
Cable length	F00
shielded, max.	500 m

unshielded, max.	150 m
Interrupts/diagnostics/status information	130 111
	Yes
Diagnostics function Alarms	TES
Diagnostic alarm	Yes
Diagnostics indication LED	163
for status of the outputs	Yes
• for maintenance	Yes
Potential separation	1.00
Potential separation digital outputs	
between the channels	Relays
between the channels, in groups of	2
between the channels and backplane bus	1 500 V AC for 1 minute
Permissible potential difference	1 300 V AO IOI 1 Illinute
between different circuits	750 V AC for 1 minute
	750 V AC for 1 millitude
Degree and class of protection	IDOO
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Ambient conditions	
Free fall	
Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
 horizontal installation, min. 	0 °C
 horizontal installation, max. 	55 °C
vertical installation, min.	0 °C
vertical installation, max.	45 °C
permissible temperature change	5°C to 55°C, 3°C / minute
Ambient temperature during storage/transportation	40.00
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	000 L D
Storage/transport, min.	660 hPa
Storage/transport, max. Polative hymidity	1 080 hPa
Relative humidity	05.0/
• Operation at 25 °C without condensation, max.	95 %
connection method / header	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	190 g
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