SIEMENS

Data sheet 6ES7222-1XF32-0XB0

	SIMATIC S7-1200, Digital output SM 1222, 8 DO, Relay Changeover contact
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.	140 mA
Digital outputs	
from load voltage L+, max.	16.7 mA/relay coil
Power loss	
Power loss, typ.	5 W
Digital outputs	
Number of digital outputs	8
• in groups of	1
Short-circuit protection	No; to be provided externally
Switching capacity of the outputs	110, to be provided externally
with resistive load, max.	2 A
on lamp load, max.	30 W with DC, 200 W with AC
Output voltage	30 W WILLI DC, 200 W WILLI AC
Rated value (DC)	5 V DC to 30 V DC
Rated value (BC) Rated value (AC)	5 V AC to 250 V AC
Output current	3 V AC to 250 V AC
• for signal "1" rated value	2 A
Output delay with resistive load	ZA
• "0" to "1", max.	10 ms
• "1" to "0", max.	10 ms
Total current of the outputs (per group)	10 IIIS
horizontal installation	2 A: Current per mass
— up to 50 °C, max.	2 A; Current per mass
Relay outputs	0
Number of relay outputs Detect outputs of relay on the control of the co	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	
• shielded, max.	500 m
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
for status of the outputs	Yes
Potential separation	
Potential separation digital outputs	
 between the channels 	Relays
 between the channels, in groups of 	1
between the channels and backplane bus	1 500 V AC for 1 minute
Permissible potential difference	

between different circuits	750 V AC for 1 minute
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
● Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
● min.	-20 °C
• max.	60 °C; Number of simultaneously activated outputs: 4 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 at 55 °C horizontal or 45 °C vertical
 horizontal installation, min. 	-20 °C
 horizontal installation, max. 	60 °C
• vertical installation, min.	-20 °C
 vertical installation, max. 	50 °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 %
connection method	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Dimensions	
Width	70 mm
Height	100 mm
Depth	75 mm
Weights	

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