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	, to be provided outcoming
with resistive load, max.	2 A
on lamp load, max.	30 W with DC, 200 W with AC
Output voltage	CO. T. Mar DO, 200 TI THAT TO
Rated value (DC)	5 V DC to 30 V DC
Rated value (AC)	5 V AC to 250 V AC
Output current	0 V / 10 10 200 V / 10
• for signal "1" rated value	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)	10 1110
horizontal installation	
— up to 50 °C, max.	2 A; Current per mass
Relay outputs	27t, outfort per mass
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	mediamenty to millon, at taken load voltage 100 000
— 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	150 111
Alarms	
	Yes
Diagnostics indication LED	163
Diagnostics indication LED	Vac
• for status of the outputs	Yes
Potential separation	
Potential separation digital outputs	Delaye
between the channels	Relays
between the channels, in groups of	1
between the channels and backplane bus Permissible potential difference	1 500 V AC for 1 minute

between different circuits	750 V AC for 1 minute		
Degree and class of protection	75		
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		
Ecological footprint			
 environmental product declaration 	Yes		
Global warming potential			
— global warming potential, (total) [CO2 eq]	68.6 kg		
 global warming potential, (during production) [CO2 	8.16 kg		
eq] — global warming potential, (during operation) [CO2 eq]	60.7 kg		
— global warming potential, (after end of life cycle) [CO2 eq]	-0.334 kg		
Ambient conditions			
Free fall			
Fall height, max.	0.3 m; five times, in product pac	ckage	
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			
Weight, approx.	310 g		
Classifications			
		Version	Classification
	eClass	14	27-24-22-04
	eClass	12	27-24-22-04
	eClass	9.1	27-24-22-04
	eClass	9	27-24-22-04
	eClass	8	27-24-22-04

eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

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