SIEMENS

Data sheet

6ES7222-1HF32-0XB0



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

Figure similar

E \$11115/515	
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
• in groups of	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" 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)	
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	
• shielded, max.	500 m

• unshielded, max.	150 m
unsnielded, max. Interrupts/diagnostics/status information	100 111
Alarms	Ver
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 	2
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
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 	60.7 kg
eq]	
	0.0041
global warming potential, (after end of life cycle)	-0.334 kg
global warming potential, (after end of life cycle) [CO2 eq]	-0.334 kg
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions	-0.334 kg
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall	
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max.	-0.334 kg 0.3 m; five times, in product package
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation	0.3 m; five times, in product package
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min.	0.3 m; five times, in product package
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max.	0.3 m; five times, in product package -20 °C 60 °C
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • horizontal installation, min.	0.3 m; five times, in product package -20 °C 60 °C -20 °C
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max.	0.3 m; five times, in product package -20 °C 60 °C -20 °C 60 °C
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • horizontal installation, min. • horizontal installation, max. • vertical installation, min.	0.3 m; five times, in product package -20 °C 60 °C -20 °C 60 °C -20 °C
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max.	0.3 m; five times, in product package -20 °C 60 °C -20 °C 60 °C -20 °C 50 °C
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. • permissible temperature change	0.3 m; five times, in product package -20 °C 60 °C -20 °C 60 °C -20 °C
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. • permissible temperature change Ambient temperature during storage/transportation	0.3 m; five times, in product package -20 °C 60 °C -20 °C 60 °C -20 °C 50 °C 50 °C 50 °C 50 °C
— global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min.	0.3 m; five times, in product package -20 °C 60 °C -20 °C 60 °C -20 °C 50 °C 50 °C 5° C to 55° C, 3° C / minute
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Depth	75 mm
Weights	
Weight, approx.	190 g

last modified:

10/9/2024