SIEMENS

Data sheet

6ES7222-1HF32-0XB0

SIMATIC S7-1200, DIGITAL OUTPUT SM 1222, 8 DO, RELAY 2A



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 inputs	
• from load voltage L+ (without load), max.	11 mA/relay coil
Power losses	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	0
Digital outputs	
Digital outputs Number of digital outputs	8
	8 2
Number of digital outputs	
Number of digital outputs In groups of	2
Number of digital outputs • In groups of short-circuit protection	2
Number of digital outputs • In groups of short-circuit protection Switching capacity of the outputs	2 No; to be provided externally
Number of digital outputs In groups of short-circuit protection Switching capacity of the outputs with resistive load, max.	2 No; to be provided externally 2 A
Number of digital outputs • In groups of short-circuit protection Switching capacity of the outputs • with resistive load, max. • on lamp load, max.	2 No; to be provided externally 2 A
Number of digital outputs In groups of short-circuit protection Switching capacity of the outputs with resistive load, max. on lamp load, max. Output voltage	2 No; to be provided externally 2 A 30 W with DC, 200 W with AC
Number of digital outputs In groups of short-circuit protection Switching capacity of the outputs with resistive load, max. on lamp load, max. Output voltage Rated value (AC)	2 No; to be provided externally 2 A 30 W with DC, 200 W with AC 5 V AC to 250 V AC

Output delay with resistive load	
• "0" to "1", max.	10 ms
• "1" to "0", max.	10 ms
Aggregate current of outputs (per group)	
horizontal installation	
— up to 50 °C, max.	10 A; Current per mass
Relay outputs	. ,
Number of relay outputs	8
Rated input 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
onshielded, max.	100 111
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic functions	Yes
Monitoring the supply voltage	Yes
Diagnostics indication LED	
 For status of the outputs 	Yes
for maintenance	Yes
 Status indicator digital output (green) 	Yes
Galvanic isolation digital outputs	
between the channels	Relays
 between the channels, in groups of 	2
• between the channels and the backplane bus	1500 V AC for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	
Degree of protection to EN 60529	
• IP20	Yes
Standards, approvals, certificates	V
CE mark	Yes
CSA approval	Yes

UL approval	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
FM approval	Yes
Marine approval	
Marine approval	Yes
Ambient conditions	
Free fall	0.2 mg five times in dispetals produces
Drop height, max. (in packaging)	0.3 m; five times, in dispatch package
Ambient temperature in operation	
Permissible temperature range	-20 °C to +60 °C horizontal mounting, -20 °C to 50 °C vertical
	mounting, 95% humidity, non-condensing
• Min.	-20 °C
• max.	60 °C
Permissible temperature change	5°C to 55°C, 3°C / minute
Storage/transport temperature	
● 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	
Permissible range (without condensation) at 25	95 %
°C	
Connection method	
required front connector	Yes
Mechanics/material	
Type of housing (front)	
• plastic	Yes
·	
Dimensions	45
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	190 g