6ES7222-1HF32-0XB0

Digital Output SM 1222, 8 DO, Relay

Technical data



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	OW 1222, DQ OX IDIA yi Z A
permissible range, lower limit (DC)	20.4 V
permissible range, lower limit (DC)	20.4 V 28.8 V
	20.0 V
Input current	400 4
from backplane bus 5 V DC, max.	120 mA
Digital outputs	44 - A/ 1 - 1
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 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
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	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
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
COLUS	169

M approval CM (formerly C-TICK) Yes CC approval Yes Marine approvation Yes Marine approvation Yes Marine approvation Yes Marine approval Yes Marin	e times, in product package
According to the second state of the second	e times, in product package
Ararine approval mbient conditions ree fall Fall height, max. Starage/transport, min. max. Max. Storage/transport, min. Storage/transport, min. Storage/transport, max. Storage/transport, max. Cleiative humidity Operation method equired front connector Vas Max. Versidal installation, min. According to the provided	e times, in product package
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Operation at 25 °C without condensation, max. 95 % ponnection method	
onnection method equired front connector Yes	
equired front connector Yes	
echanics/material	
inclosure material (front)	
Plastic Yes	
mensions	
Vidth 45 mm	
leight 100 mm	
Depth 75 mm	
eights	
Veight, approx. 190 g	
ast modified: 1/16/202	

Last changes: 01/20/2021

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