SIEMENS

Data sheet

6ES7322-1FL00-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 120 V/230 V AC, 1 A, double-width, $2x\,20\text{-pole}$

Figure similar

Supply voltage		
Load voltage L1		
 Rated value (AC) 	120 V; 120/230 V AC	
 permissible range, lower limit (AC) 	79 V	
 permissible range, upper limit (AC) 	264 V	
 permissible frequency range, lower limit 	47 Hz	
 permissible frequency range, upper limit 	63 Hz	
Input current		
from load voltage L1 (without load), max.	10 mA	
from backplane bus 5 V DC, max.	190 mA	
Power loss		
Power loss, typ.	25 W	
Digital outputs		
Number of digital outputs	32	
Short-circuit protection	No	
Controlling a digital input	Yes	
Size of motor starters according to NEMA, max.	Size 4 according to NEMA	
Zero-crossing switch	Yes; Max. 60 V	
Switching capacity of the outputs		
on lamp load, max.	50 W	
Output voltage		
● for signal "1", min.	L1 (-0.8 V)	
Output current		
● for signal "1" rated value	1 A	
 for signal "1" permissible range for 0 to 40 °C, min. 	10 mA	
 for signal "1" permissible range for 0 to 40 °C, max. 	1 A	
 for signal "1" permissible range for 40 to 60 °C, min. 	10 mA	
 for signal "1" permissible range for 40 to 60 °C, max. 	1 A	
for signal "1" minimum load current	10 mA	
for signal "1" permissible surge current, max.	10 A; per group (for 2 AC cycles)	
■ for signal "0" residual current, max.	2 mA	
Output delay with resistive load		
● "0" to "1", max.	1 AC cycle	
● "1" to "0", max.	1 AC cycle	
Parallel switching of two outputs		
for uprating	No	
for redundant control of a load	Yes; only outputs of the same group	
Switching frequency		
 with resistive load, max. 	10 Hz	

with inductive load, max.	0.5 Hz
with inductive load, max. with inductive load (acc. to IEC 60947-5-1, AC15), max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	I TIZ
horizontal installation	
	4 A
— up to 40 °C, max.	
— up to 60 °C, max.	3 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	Yes; Fuse blown or load voltage missing
Alarms	
Diagnostic alarm	No
Diagnostics indication LED	
 Group error SF (red) 	Yes
 Status indicator digital output (green) 	Yes; per channel
Potential separation	
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	8
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	4 000 V DC
connection method	
required front connector	20-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	500 g

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