Data sheet

6ES7322-1FL00-0AA0



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

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 (acc. to IEC 60947-5-1, AC15), max.	0.5 Hz
on lamp load, max.	1 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— 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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