SIEMENS

Data sheet

6ES7322-1FF01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 120/230 V AC, 1 A, 1x 20-pole

Figure similar

6 *1100.100	
Supply voltage	
Load voltage L1	
 Rated value (AC) 	230 V; 120/230 V AC
 permissible range, lower limit (AC) 	93 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.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Fuse 8 A, 250 V; per group
 required current for fuse shutdown, min. 	40 A
Response time, max.	300 ms
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	5 NEMA compliant
Spare fuses	8 A / quick response
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 (-1.5 V)
for signal "1" (at max. current), min.	L1 (-1.5 V)
● for signal "1" (at min. current), min.	L1 (-8.5 V)
Output current	
for signal "1" rated value	2 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. 	2 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. 	20 A; max. 1 AC cycle
• for signal "0" residual current, max.	2 mA
Output delay with resistive load	

2 "0" to "4" may	1 AC avala
• "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 Switching fragularity.	Yes
Switching frequency	10 Hz
with resistive load, max. with industive load, max.	0.5 Hz
with inductive load, max. with inductive load (ass. to IFC 60047 5.1, AC45).	
 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.	2 A
vertical installation	
— up to 40 °C, max.	2 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
Diagnoses	
Wire-break	No
Short-circuit	No
Fuse blown	Yes
missing load voltage	Yes
Diagnostics indication LED	
Rated load voltage PWR (green)	Yes
Fuse OK FSG (green)	Yes
Group error SF (red)	Yes
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Yes
between the channels, in groups of	4
between the channels and backplane bus	Yes; Optocoupler
Isolation	, p.00000p.0.
Isolation tested with	1 500 V AC
connection method / header	
required front connector	20-pin
Dimensions	20 μπ
	40 mm
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	275 g
last modified:	1/16/2021 🗗