## 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

Supply voltage		
Load voltage L1		
Rated value (AC)	230 V; 120/230 V AC	
<ul> <li>permissible range, lower limit (AC)</li> </ul>	93 V	
<ul> <li>permissible range, upper limit (AC)</li> </ul>	264 V	
<ul> <li>permissible frequency range, lower limit</li> </ul>	47 Hz	
<ul> <li>permissible frequency range, upper limit</li> </ul>	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	
<ul> <li>required current for fuse shutdown, min.</li> </ul>	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		
<ul> <li>on lamp load, max.</li> </ul>	50 W	
Output voltage		
<ul> <li>for signal "1", min.</li> </ul>	L1 (-1.5 V)	
<ul> <li>for signal "1" (at max. current), min.</li> </ul>	L1 (-1.5 V)	
<ul> <li>for signal "1" (at min. current), min.</li> </ul>	L1 (-8.5 V)	
Output current		
<ul> <li>for signal "1" rated value</li> </ul>	2 A	
<ul> <li>for signal "1" permissible range for 0 to 40 °C, min.</li> </ul>	10 mA	
<ul> <li>for signal "1" permissible range for 0 to 40 °C, max.</li> </ul>	2 A	
<ul> <li>for signal "1" permissible range for 40 to 60 °C, min.</li> </ul>	10 mA	
<ul> <li>for signal "1" permissible range for 40 to 60 °C, max.</li> </ul>	1 A	
<ul> <li>for signal "1" minimum load current</li> </ul>	10 mA	
<ul> <li>for signal "1" permissible surge current, max.</li> </ul>	20 A; max. 1 AC cycle	
<ul> <li>for signal "0" residual current, max.</li> </ul>	2 mA	
Output delay with resistive load		

• "0" to "1" may	
• "0" to "1", max.	1 AC cycle
• "1" to "0", max.	1 AC cycle
Parallel switching of two outputs	Ma
• for uprating	No
for redundant control of a load	Yes
Switching frequency	40.11
• 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
<ul> <li>on lamp load, max.</li> </ul>	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	
<ul> <li>shielded, max.</li> </ul>	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	Yes; Fuse blown or load voltage missing
Alarms	Tes, Tuse blown of load voltage missing
	No
Diagnostic alarm     Diagnoses	NO
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
<ul> <li>Group error SF (red)</li> </ul>	Yes
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	4
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	1 500 V AC
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
	120 mm
Depth	
Weights	075
Weight, approx.	275 g
last modified:	1/16/2021 🖸