## **SIEMENS**

## **Data sheet**

## 6ES7322-1FH00-0AA0



SIMATIC S7-300, Digital output SM 322, Isolated 16 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>	79 V
<ul> <li>permissible range, upper limit (AC)</li> </ul>	264 V
Input current	
from load voltage L1 (without load), max.	2 mA
from backplane bus 5 V DC, max.	200 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	16
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.	4 NEMA compliant
Spare fuses	8 A / quick response
Switching capacity of the outputs	
● on lamp load, max.	50 W
Output voltage	
<ul><li>for signal "1" (at max. current), min.</li></ul>	L1 (-1.5 V)
■ for signal "1" (at min. current), min.	L1 (-8.5 V)
Output current	
<ul><li>for signal "1" rated value</li></ul>	1 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>	1 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>	0.5 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; with 2 half waves
for signal "0" residual current, max.	2 mA
Parallel switching of two outputs	
for uprating	No
for redundant control of a load	Yes; only outputs of the same group
Switching frequency	
<ul> <li>with resistive load, max.</li> </ul>	10 Hz

<ul><li>with inductive load, max.</li></ul>	0.5 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, AC15), max.</li> </ul>	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	
<ul><li>shielded, max.</li></ul>	1 000 m
<ul><li>unshielded, max.</li></ul>	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Fuse blown or load voltage missing
Alarms	
Diagnostic alarm	No
Diagnoses	
<ul><li>Wire-break</li></ul>	No
<ul> <li>Short-circuit</li> </ul>	No
<ul><li>Fuse blown</li></ul>	Yes
missing load voltage	No
Diagnostics indication LED	
<ul> <li>Rated load voltage PWR (green)</li> </ul>	No
<ul> <li>Fuse OK FSG (green)</li> </ul>	Yes; Red LED for fuse
<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, in groups of</li> </ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	4 000 V DC
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	275 g
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