SIEMENS

Data sheet

6ES7323-1BL00-0AA0



SIMATIC S7-300, Digital module SM 323, isolated, 16 DI and 16 DO, 24 V DC, 0.5 A, Total current 4A, 1x 40-pole

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Supply voltage				
Load voltage L+				
• Rated value (DC)	24 V			
 permissible range, lower limit (DC) 	20.4 V			
permissible range, upper limit (DC)	28.8 V			
Input current				
from load voltage L+ (without load), max.	80 mA			
from backplane bus 5 V DC, max.	80 mA			
Power loss				
Power loss, typ.	6.5 W			
Digital inputs				
Number of digital inputs	16			
Input characteristic curve in accordance with IEC 61131, type 1	Yes			
Number of simultaneously controllable inputs				
horizontal installation				
— up to 40 °C, max.	16			
— up to 60 °C, max.	8			
vertical installation				
— up to 40 °C, max.	16			
Input voltage				
 Type of input voltage 	DC			
• Rated value (DC)	24 V			
● for signal "0"	-30 to +5 V			
● for signal "1"	13 to 30V			
Input current				
● for signal "1", typ.	7 mA			
Input delay (for rated value of input voltage)				
for standard inputs				
— at "0" to "1", min.	1.2 ms			
— at "0" to "1", max.	4.8 ms			
— at "1" to "0", min.	1.2 ms			
— at "1" to "0", max.	4.8 ms			
Cable length				
 shielded, max. 	1 000 m			
• unshielded, max.	600 m			
Digital outputs				
Number of digital outputs	16			
Short-circuit protection	Yes			
 Response threshold, typ. 	1 A			

Limitation of inductive shutdown voltage to	L+ (-48 V)			
Controlling a digital input	Yes			
Switching capacity of the outputs	165			
• on lamp load, max.	5 W			
Load resistance range	5 W			
lower limit	48 Ω			
upper limit	4 kΩ			
Output voltage	1 /77			
• for signal "1", min.	L+ (-0.8 V)			
Output current				
for signal "1" rated value	0.5 A			
 for signal "1" permissible range, min. 	5 mA			
 for signal "1" permissible range, max. 	0.6 A			
 for signal "1" minimum load current 	5 mA			
 for signal "0" residual current, max. 	0.5 mA			
Output delay with resistive load	0.5 mA			
• "0" to "1", max.	100 μs			
• 0 to 1, max. • "1" to "0", max.				
	500 µs			
Parallel switching of two outputs	No			
 for uprating for redundant control of a load 	No			
	Yes; only outputs of the same group			
Switching frequency	100 Hz			
with resistive load, max.	100 Hz			
with inductive load, max.	0.5 Hz			
• on lamp load, max.	100 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.	2 A			
Cable length	4 000			
• shielded, max.	1 000 m			
• unshielded, max.	600 m			
Encoder				
Connectable encoders				
• 2-wire sensor	Yes			
— permissible quiescent current (2-wire sensor), max.	1.5 mA			
Interrupts/diagnostics/status information				
Alarms	No			
Diagnostics function	No			
Diagnostics indication LED				
Status indicator digital input (green)	Yes			
Status indicator digital output (green)	Yes			
Potential separation				
Potential separation digital inputs				
between the channels	Yes			
 between the channels, in groups of 	16			
 between the channels and backplane bus 	Yes; Optocoupler			
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	500 V DC			
connection method				
required front connector	40-pin			
Dimensions				
Width	40 mm			
Height	125 mm			

Depth	120 mm
Weights	
Weight, approx.	260 g
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