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

Figure similar

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	1,000 m
shielded, max. unphicland, max.	1 000 m
unshielded, max. Digital autouts	600 m
Digital outputs	10
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	
on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	
• 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" to "1", max.	100 μs
• "1" to "0", max.	500 μs
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.	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	
shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
permissible quiescent current (2-wire sensor),	1.5 mA
max.	
Interrupts/diagnostics/status information	
Alarms	No
Alarms Diagnostics function	No No
Diagnostics function	
Diagnostics function Diagnostics indication LED	
Diagnostics function Diagnostics indication LED • Status indicator digital input (green)	No
Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green)	No Yes
Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation	No Yes
Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs	Yes Yes
Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels	Yes Yes
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Diagnostics function Diagnostics indication LED • Status indicator digital input (green) • Status indicator digital output (green) Potential separation Potential separation digital inputs • between the channels • between the channels, in groups of • between the channels and backplane bus	Yes Yes
Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green) Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Potential separation digital outputs	Yes Yes Yes Yes 16 Yes; Optocoupler
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Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green) Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Potential separation digital outputs between the channels between the channels between the channels, in groups of	Yes Yes Yes 16 Yes; Optocoupler Yes 8
Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green) Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Potential separation digital outputs between the channels between the channels between the channels between the channels and backplane bus	Yes Yes Yes 16 Yes; Optocoupler
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Diagnostics function Diagnostics indication LED Status indicator digital input (green) Status indicator digital output (green) Potential separation Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Potential separation digital outputs between the channels and backplane bus Isolation Isolation	Yes Yes Yes 16 Yes; Optocoupler Yes 8
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Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g

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