

SIEMENS

Product data sheet

6ES7323-1BL00-0AA0


SIMATIC S7-300, DIGITAL MODULE SM 323,
OPTICALLY ISOLATED, 16 DI AND 16 DO,
24V DC, 0.5A, AGGREGATE CURRENT 4A,
1X40 PIN

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
Power supply / Input / Input current	
from load voltage L+ (without load), max.	80 mA
from backplane bus 5 V DC, max.	80 mA
Power losses	
Power loss, typ.	6.5 W
Digital inputs	
Number of digital inputs	16
Number of simultaneously controllable inputs	
all mounting positions	
Concurrently controllable inputs, up to 40 °C	16

Concurrently controllable inputs, up to 60 °C	8
Input characteristic curve acc. to IEC 1131, Type 1	Yes
Input voltage	
Rated value, DC	24 V
for signal "0"	-30 to +5 V
for signal "1"	13 to 30 V
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	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes ; Electronic
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-48 V)
Lamp load, max.	5 W
Controlling a digital input	Yes
Output voltage	
for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	0.5 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 2 outputs	
for increased power	No
for redundant control of a load	Yes ; outputs of the same group only
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	100 Hz
Aggregate current of outputs (per group)	
horizontal installation	
up to 40 °C, max.	4 A
up to 60 °C, max.	3 A
Load resistance range	
lower limit	48 Ω
upper limit	4 kΩ
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Encoder	
Connectable encoders	
2-wire BEROS	Yes
permissible quiescent current (2-wire BEROS), max.	1.5 mA
Interrupts/diagnostics/status information	
Alarms	
Alarms	No
Diagnoses	
Diagnostic functions	No
Diagnostics indication LED	
Status indicator digital output (green)	Yes
Status indicator digital input (green)	Yes
Isochronous mode	
Isochronous mode	No
Galvanic isolation	
Galvanic isolation digital inputs	

between the channels	Yes
between the channels, in groups of	16
between the channels and the backplane bus	Yes ; Optocoupler
Galvanic isolation digital outputs	
between the channels	Yes
between the channels, in groups of	8
between the channels and the backplane bus	Yes ; Optocoupler
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 VDC
Connection method	
required front connector	40-pin
Dimensions and weight	
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weight	
Weight, approx.	260 g
Status	May 16, 2011