SIEMENS

Data sheet 6ES7321-1BP00-0AA0



Figure similar

*** spare part *** SIMATIC S7-300 digital input SM 321, isolated in groups of 16, 64 DI, 24 V DC, 3 ms, sinking/sourcing input terminal blocks 6ES7392-1.N00-0AA0 and cable 6ES7392-4...0-0AA0 required

General information	
Product function	
● Isochronous mode	No
Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V
● Reverse polarity protection	Yes
Input current	
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7 W
Digital inputs	
Number of digital inputs	64
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	64
— up to 60 °C, max.	32
horizontal installation	
— up to 40 °C, max.	64
— up to 60 °C, max.	32
vertical installation	
— up to 40 °C, max.	32
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.	4.2 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— Rated value	4.2 ms
— 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

© Copyright Plcally

Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Encoder	
Connectable encoders	
● 2-wire sensor	No
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
● Diagnostic alarm	No
● Hardware interrupt	No
Diagnoses	
● Diagnostic information readable	No
● Wire break	No
Diagnostics indication LED	
● Group error SF (red)	No
● Status indicator digital input (green)	Yes
● Encoder supply Vs (green)	No
Potential separation	
Potential separation digital inputs	
● between the channels	No
● between the channels, in groups of	16
● between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
Connection method	
required front connector	Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0
Dimensions	
Width	40 mm
Height	125 mm
Depth	112 mm
Weights	
Weight, approx.	230 g

Classifications

	Version	Classification
eClass	16	27-24-22-04
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

© Copyright Plcally

Miscellaneous

General Product Approval	EMV	For use in hazardous locations
China RoHS		FM

For use in hazardous locations					Maritime application
			Miscellaneous	CCC-Ex	

Maritime application					
			NK / Nippon Kaiji Kyokai		

Maritime application
CCS (China Classification Society)

last modified: 7/17/2025

© Copyright Plcally