



\*\*\*spare part\*\*\* SIMATIC S7-300, digital input SM 321, isolated, 32 DI, 120 V AC, 1x 40-pole

Figure similar

General information	
Product function	
• Isochronous mode	No
Supply voltage	
Load voltage L1	
• Rated value (AC)	120 V
Input current	
from backplane bus 5 V DC, max.	
	16 mA
Power loss	
Power loss, typ.	
	4 W
Digital inputs	
Number of digital inputs	
	32
Input characteristic curve in accordance with IEC 61131, type 2	
	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	32
— up to 60 °C, max.	24
vertical installation	
— up to 40 °C, max.	32
Input voltage	
• Type of input voltage	
	AC
• Rated value (AC)	
	120 V; 47 ... 63 Hz
• for signal "0"	
	0 to 20V
• for signal "1"	
	74 to 132V
Input current	
• for signal "1", typ.	
	21 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	15 ms
— at "1" to "0", max.	25 ms
Cable length	
• shielded, max.	
	1 000 m
• unshielded, max.	
	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	
	Yes
— permissible quiescent current (2-wire sensor), max.	
	4 mA

Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
• Diagnostic alarm	No
• Hardware interrupt	No
Diagnostics indication LED	
• Group error SF (red)	No
• Status indicator digital input (green)	Yes; per channel
Potential separation	
Potential separation digital inputs	
• between the channels	No
• between the channels, in groups of	8
• between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	2 500 V DC
Connection method	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	300 g

Classifications			
		Version	Classification
	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**

[Miscellaneous](#)



General Product Approval	EMV	For use in hazardous locations	Maritime application
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[China RoHS](#)



[EM](#)



**Maritime application**



[NK / Nippon Kaiji Kyokai](#)



Maritime application

[CCS \(China Classification Society\)](#)

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