## SIEMENS

## Data sheet

## 6ES7647-0KA02-0AA2

SIMATIC IoT2000, input module sink/source, 10x DI, ARDUINO Shield for SIMATIC IoT2020 and IoT2040



General information	
Product type designation	IOT2000
Installation type/mounting	
Mounting	On Arduino interface
Design	Plug-in card
Supply voltage	
Type of supply voltage	24 V DC
Digital inputs	
Number of digital inputs	10
Input voltage	
• for signal "0"	< 5 V DC
• for signal "1"	> 12 V DC
Input current	
<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	0.9 mA
• for signal "1", typ.	2.1 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	1.5 ms
— at "1" to "0", max.	1.5 ms
Digital outputs	
Type of digital output	without
	without
Type of digital output	without
Type of digital output EMC	without ± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2
Type of digital output EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8
Type of digital output EMC Interference immunity against discharge of static electricity  • Interference immunity against discharge of static electricity	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8
Type of digital output EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity Interference immunity to cable-borne interference	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2
Type of digital output EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity Interference immunity to cable-borne interference • Interference immunity on signal cables < 30m	± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2
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FCC	Yes	
EMC	CE (industry)	
Ambient conditions		
Ambient temperature during storage/transportation		
• min.	-20 °C	
• max.	70 °C	
Mechanics/material		
Enclosure material (front)	plastic	
Plastic	Yes	
Aluminum	No	
Stainless steel	No	
• Glass	No	
Dimensions		
Width	75 mm	
Height	57 mm	
Depth	32 mm	

last modified:

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