## Data sheet

SIPLUS S7-1500 DI 16x230V AC BA -40...+70°C with conformal coating based on 6ES7521-1FH00-0AA0 . Digital input module DI 16x230 V AC, "16 channels in groups of 4;" "Input delay 20ms; Input type" 1 (IEC 61131)



Figure similar

General information	
Product function	
● I&M data	Yes; I&M0 to I&M3
Power	
Power available from the backplane bus	1 W
Power loss	
Power loss, typ.	4.9 W
Digital inputs	
Number of digital inputs	16; > +60 °C, number of simultaneously controllable inputs max. 8
Input characteristic curve in accordance with IEC	Yes
61131, type 1	
Input voltage	
Rated value (AC)	230 V; 120/230 V AC (47 Hz to 63 Hz)
• for signal "0"	0V AC to 40V AC
• for signal "1"	79V AC to 264V AC
Input current	

• for signal "1", typ.	11 mA; At 230 V AC/50 Hz and 6.5 mA at 120 V AC/50 Hz
Input delay (for rated value of input voltage)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	25 ms
— at "1" to "0", max.	25 ms
for interrupt inputs	
— parameterizable	No
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	Ver
• 2-wire sensor	Yes
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	2 mA
Sensor), max.	
Isochronous mode	
Isochronous operation (application synchronized up	No
to terminal)	
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnostic messages	
<ul><li>Monitoring the supply voltage</li></ul>	No
Wire-break	No
Short-circuit	No
• Fuse blown	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
<ul><li>Monitoring of the supply voltage (PWR-LED)</li></ul>	No
Channel status display	Yes; Green LED
<ul> <li>for channel diagnostics</li> </ul>	No
• for module diagnostics	Yes; Red LED
Potential separation	
Potential separation channels	
• between the channels	No
• between the channels, in groups of	4
<ul> <li>between the channels and backplane bus</li> </ul>	Yes

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between different circuits	250 V AC between the channels and the backplane bus; 500 V AC between the channels
solation	
Isolation tested with	2500 V DC
tandards, approvals, certificates	
Suitable for safety functions	No
mbient conditions	
Ambient temperature during operation	
<ul><li>horizontal installation, min.</li></ul>	-40 °C; = Tmin (incl. condensation/frost)
<ul> <li>horizontal installation, max.</li> </ul>	70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 8
• vertical installation, min.	-40 °C; = Tmin
• vertical installation, max.	40 °C; = Tmax
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	2 000 m
<ul> <li>Ambient air temperature-barometric pressure- altitude</li> </ul>	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
Relative humidity	
<ul> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Coolants and lubricants	
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)

- Environmental conditions for process, Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 measuring and control systems acc. to permissible); level LC3 (salt spray) and level LB3 (oil) ANSI/ISA-71.04 Remark \* The supplied plug covers must remain in place over the unused - Note regarding classification of interfaces during operation! environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Yes; Class 2 for high availability Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Yes; Discoloration of coating possible during service life • Military testing according to MIL-I-46058C, Amendment 7 Yes; Conformal coating, Class A • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Decentralized operation Fast Startup supported Yes; 500 ms Dimensions Width 35 mm Height 147 mm Depth 129 mm Weights

200 g

08/30/2019

Weight, approx.

last modified: