## SIEMENS

## Data sheet

## 6AG1326-1BK02-2AY0



\*\*\*spare part\*\*\* SIPLUS S7-300 SM 326F DI24 based on 6ES7326-1BK02-0AB0 with conformal coating, -25...+60 °C, digital input fail-safe digital input for SIMATIC S7 F-systems with diagnostic alarm, 1x 40-pole

Figuresimilar	
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Supply voltage	
Rated value (DC)	24 V; A power supply according to EN 50155 shall be used
nput current	
from load voltage L+ (without load), max.	450 mA
from backplane bus 5 V DC, max.	100 mA
Encoder supply	
Number of outputs	4; Isolated
Output current	
Rated value	400 mA
Power loss	
Power loss, typ.	10 W
Digital inputs	
Number of digital inputs	24
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	24
— up to 60 °C, max.	24; (at 24 V) or 18 (at 28.8 V)
Input voltage	
<ul> <li>Type of input voltage</li> </ul>	DC
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>for signal "0"</li> </ul>	-28.8 +5V
<ul> <li>for signal "1"</li> </ul>	+11 to +28.8V
Input current	
<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	2 mA
<ul> <li>for signal "1", typ.</li> </ul>	10 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3.4 ms
— at "1" to "0", max.	3.4 ms
Cable length	
<ul> <li>shielded, max.</li> </ul>	200 m
• unshielded, max.	100 m
Encoder	
Connectable encoders	
2-wire sensor	Yes; if short-circuit test is deactivated
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	2 mA
Interrupts/diagnostics/status information	

Diagnostics function	Yes	
Alarms	165	
Diagnostic alarm	Yes	
Diagnoses		
Diagnostic information readable	Yes	
Diagnostics indication LED		
• Fail-safe operation	Yes	
Group error SF (red)	Yes	
Potential separation		
Potential separation digital inputs		
between the channels	Yes	
<ul> <li>between the channels, in groups of</li> </ul>	12	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
Isolation		
Isolation tested with	500V AC for 1 min (internal voltage limiting to ±120V)	
Standards, approvals, certificates		
CE mark	Yes	
UL approval	Yes; File E239877	
Highest safety class achievable in safety mode		
• acc. to DIN VDE 0801	AK 6	
• acc. to EN 954	Cat. 4	
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	e	
• SIL acc. to IEC 61508	SIL 3	
Railway application		
• EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007	
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C; = Tmin	
• max.	60 °C; = Tmax; the rated temperature range of -25 +55 °C (T1) applies for the use on railway vehicles according to EN50155	
Altitude during operation relating to sea level		
<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m	
Ambient air temperature-barometric pressure- altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)	
Relative humidity		
With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
Resistance		
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 land craft, rail vehicles and special-purpose vehicles		
<ul> <li>— to biologically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request	
<ul> <li>— to chemically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *	
<ul> <li>— to mechanically active substances according to EN 60721-3-5</li> </ul>	Yes; Class 5S3 incl. sand, dust; *	
Remark		
<ul> <li>— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!	
connection method / header		
required front connector	40-pin	
Dimensions		
Width	80 mm	
Height	125 mm	

Depth	120 mm
Weights	
Weight, approx.	442 g
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