SIEMENS

Data sheet

6AG1321-7RD00-4AB0



SIPLUS S7-300 SM 321 4DI NAMUR based on 6ES7321-7RD00-0AB0 with conformal coating, 0...+60 °C, digital input isolated 4 DI; 24 V DC, NAMUR/DIN 19234, for signals from the hazardous area, diagnostics-capable, PTB tested

Figuresimilar	
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Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	50 mA
from backplane bus 5 V DC, max.	80 mA
Encoder supply	
Type of output voltage	via the inputs
Power loss	
Power loss, typ.	1.1 W
Digital inputs	
Number of digital inputs	4
Number of NAMUR inputs	4
Input voltage	
 Type of input voltage 	DC
Rated value (DC)	8.2 V; from internal power circuit supply
Input current	
 on wire-break, max. 	0.1 mA
 on short-circuit, max. 	8.5 mA
Input delay (for rated value of input voltage)	
 Input frequency (with a time delay of 0.1 ms), max. 	2 kHz
for NAMUR inputs	
— parameterizable	Yes; 0.1 / 0.5 / 3 / 15 / 20 ms (plus 0.25 ms preparation time)
Cable length	
 unshielded, max. 	200 m
Encoder	
Connectable encoders	
NAMUR encoder	Yes; Two-wire connection
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Diagnoses	
Diagnostic information readable	Yes
Diagnostics indication LED	
 Group error SF (red) 	Yes
 Status indicator digital input (green) 	Yes
 Channel fault indicator F (red) 	Yes

 Po (power output), max. Co (permissible external capacity), max. 3 µF 	V 1 mA
maximum values for connecting terminals for gas group IIC• Uo (no-load voltage), max.10 V• Io (short-circuit current), max.14.1• Po (power output), max.33.7• Co (permissible external capacity), max.3 µF	V 1 mA
 Uo (no-load voltage), max. Io (short-circuit current), max. Po (power output), max. Co (permissible external capacity), max. 3 µF 	1 mA
 Po (power output), max. Co (permissible external capacity), max. 3 µF 	
• Co (permissible external capacity), max. 3 μF	7
	7 mvv
• Lo (permissible external inductivity), max.	F
) mH
Potential separation	
Potential separation digital inputs	
	s; 60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 C when used in NON-hazardous area
• between the channels, in groups of 1	
	s; 60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 C when used in NON-hazardous area
	s; 60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 C when used in NON-hazardous area
Standards, approvals, certificates	
CE mark Yes	6
	s; File E239877
RCM (formerly C-TICK) Yes	
KC approval Yes	
EAC (formerly Gost-R) Yes	3
Use in hazardous areas	
	EX II 3 G (2) GD Ex nA [ib Gb] [ib IIIC Db] IIC T4 Gc
Ambient conditions	
Ambient temperature during operation	
	C; = Tmin
	°C; = Tmax
Ambient temperature during storage/transportation	10
• min40	
max. 70 °	
Altitude during operation relating to sea level	00 m
	oo m in Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude (7	Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +2 000 m) // Tmin Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
	0 %; RH incl. condensation/frost (no commissioning under idensation conditions)
Resistance	
Use in stationary industrial systems	
EN 60721-3-3 faur	s; Class 3B2 mold, fungus and dry rot spores (with the exception of na); Class 3B3 on request
EN 60721-3-3 (sev	s; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 verity degree 3); *
EN 60721-3-3	s; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
	s; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on uest
	s; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 verity degree 3); *
— to mechanically active substances according to Yes EN 60721-3-6	s; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
— Against chemically active substances acc. to Yes EN 60654-4	s; Class 3 (excluding trichlorethylene)
measuring and control systems acc. to ANSI/ISA- 71.04 leve	s; Level GX group A/B (excluding trichlorethylene; harmful gas ncentrations up to the limits of EN 60721-3-3 class 3C4 permissible); el LC3 (salt spray) and level LB3 (oil)
Remark	
— Note regarding classification of environmental * Th	he supplied plug covers must remain in place over the unused

conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	interfaces during operation!
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	230 g
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last modified:

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