SIEMENS

Data sheet

6AG1222-1HH32-2XB0



SIPLUS S7-1200 SM 1222 16DQ RLY based on 6ES7222-1HH32-0XB0 with conformal coating, -40...+70 °C, start up -25 °C, digital output 16 DQ, relay 2 A

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Supply voltage permissible range, lower limit (DC) 20.4 V	16x relay/2 A				
permissible range, lower limit (DC) 20.4 V					
permissible range, upper limit (DC) 28.8 V	28.8 V				
Input current					
from backplane bus 5 V DC, max. 135 mA					
Digital outputs					
• from load voltage L+, max. 11 mA/relay c	11 mA/relay coil				
Power loss					
Power loss, typ. 8.5 W	8.5 W				
Digital outputs					
Number of digital outputs 16					
• in groups of 1	1				
Short-circuit protection No; to be prov	No; to be provided externally				
Switching capacity of the outputs					
• with resistive load, max. 2 A	2 A				
• on lamp load, max. 30 W with DC	c, 200 W with AC				
Output voltage					
Rated value (DC) 5 V DC to 30	V DC				
Rated value (AC) 5 V AC to 250) V AC				
Output current					
for signal "1" rated value 2 A					
Output delay with resistive load					
• "0" to "1", max. 10 ms					
• "1" to "0", max. 10 ms					
Total current of the outputs (per group)					
horizontal installation					
— up to 50 °C, max. 10 A; Current	per mass				
Relay outputs					
	16 24 V				
	mechanically 10 million, at rated load voltage 100 000				
Switching capacity of contacts					
— with inductive load, max. 2 A					
	30 W with DC, 200 W with AC				
	2 A				
Cable length					

• unshielded, max. 500 m Interrupts/diagnostic status information Yes Alarms • Diagnostic alarm Yes • Diagnostic alarm Yes Diagnostic indication LED • Yes • for status of the outputs Yes • for status of the outputs Yes • for status of the outputs Yes • Potential separation Petential separation digital outputs • between the channels, in groups of 4 • between the channels in groups of 4 • between different circuits 750 V AC for 1 minute Portical sof protection IP20 Ambient conditions IP20 Free fail • Cass of protection • max. 0.3 m; five times, in product package Anbient temperature during operation -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C <
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60068-2-38, max. condensation conditions)
Resistance
Coolants and lubricants
— Resistant to commercially available coolants and lubricants Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems — to biologically active substances according to Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
 to biologically active substances according to EN 60721-3-3 to chemically active substances according to Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-3 (severity degree 3); * — to mechanically active substances according to — to mechanically active substances according to — to mechanically active substances according to
EN 60721-3-3 Use on ships/at sea
— to biologically active substances according to Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3
 EN 60721-3-6 Tes, Class 6D2 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D2 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D3 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D3 field and fungal spores (excluding faulta), class 6D3 frequest Tes, Class 6D3 field and fungal spores (excluding faulta), class 6D3 field and fungal spores (excluding faulta), class 6D3 frequest
EN 60721-3-6 (severity degree 3); * — to mechanically active substances according to — to mechanically active substances according to
EN 60721-3-6 Usage in industrial process technology
— Against chemically active substances acc. to EN 60654-4 Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible

71.04	level LC3 (salt spray) and level LB3 (oil)		
Remark			
 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!		
Conformal coating			
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability		
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection		
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life		
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A		
connection method / header			
required front connector	Yes		
Mechanics/material			
Enclosure material (front)			
Plastic	Yes		
Dimensions			
Width	45 mm		
Height	100 mm		
Depth	75 mm		
Weights			
Weight, approx.	260 g		

last modified:

1/16/2021 🖸