SIEMENS

Data sheet

6AG1222-1HH32-4XB0



SIPLUS S7-1200 SM 1222 16DQ RLY based on 6ES7222-1HH32-0XB0 with conformal coating, -20...+60 $^\circ\text{C},$ digital output 16 DQ, relay 2 A

Fi	a	ire	si	m	ilar	
	9.		21		1.04	

General information	
Product type designation	SM 1222, DQ 16x relay/2 A
based on	6ES7222-1HH32-0XB0
Supply voltage	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	20.0 V
from backplane bus 5 V DC, max.	135 mA
Digital outputs	
from load voltage L+, max.	11 mA/relay coil
Power loss	
Power loss typ.	8.5 W
Digital outputs	0.0 **
	16
Number of digital outputs	1
in groups of Short-circuit protection	No; to be provided externally
Switching capacity of the outputs	No, to be provided externally
with resistive load, max.	2 A
• on lamp load, max.	30 W with DC, 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	
Number of relay outputs	16
 Rated supply voltage of relay coil L+ (DC) 	24 V
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Switching capacity of contacts	
— with inductive load, max.	2 A
— on lamp load, max.	30 W with DC, 200 W with AC
— with resistive load, max.	2 A
Cable length	

e chielded may	500 m
 shielded, max. unshielded, max. 	500 m 150 m
unsneided, max. Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	105
Monitoring the supply voltage	Yes
Diagnostics indication LED	
for status of the outputs	Yes
for maintenance	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Relay, dry contact
 between the channels, in groups of 	4
 between the channels and backplane bus 	1 500 V AC for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
Ecological footprint	
 environmental product declaration 	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	68.6 kg
— global warming potential, (during production) [CO2	8.16 kg
eq]	00.7 km
 global warming potential, (during operation) [CO2 eq] 	60.7 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.334 kg
Ambient conditions	
Free fall	
 Fall height, max. 	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C; = Tmin (incl. condensation/frost); start-up @ 0 °C
• max.	60 °C; = Tmax
At cold restart, min.	0 °C
At cold restart, min. Ambient temperature during storage/transportation	0 °C
	-40 °C
Ambient temperature during storage/transportation min. max. 	
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level	-40 °C 70 °C
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. 	-40 °C 70 °C 2 000 m
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level	-40 °C 70 °C
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. 	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K)
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude 	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K)
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068- 	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. 	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and 	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants 	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Ambient temperature during storage/transportation min. max. Altitude during operation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems to biologically active substances according to EN 	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna);
Ambient temperature during storage/transportation • min. • max. Altitude during operation relating to sea level • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude Relative humidity • With condensation, tested in accordance with IEC 60068- 2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) Yes; Incl. diesel and oil droplets in the air 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 (severity
Ambient temperature during storage/transportation • min. • max. Altitude during operation relating to sea level • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude Relative humidity • With condensation, tested in accordance with IEC 60068- 2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) Yes; Incl. diesel and oil droplets in the air 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 (severity degree 3); *
Ambient temperature during storage/transportation • min. • max. Attitude during operation relating to sea level • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3	-40 °C 70 °C 2 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) Yes; Incl. diesel and oil droplets in the air 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 (severity degree 3); *

- or mechanically active substances according to EN Yes; Class 683 incl. sand, dust.* - Against chemically active substances acc. to EN Yes; Class 3 (accluding trichlorethylene) - Against chemically active substances acc. to EN Yes; Class 3 (accluding trichlorethylene) - Environmental conditions for process, measuring and control systems acc. to NADISAS-71.0. Yes; Class 2 (or up. A9 (accluding trichlorethylene; hermlu gas conditions acc. to NADISAS-71.0. - Note regarding classification of environmental conditions acc. to EN 6007.1. EN 6054.4 and AssistaS-71.0. * The suppleted plug covers must remain in place over the unused interfaces duality according to Milay acc. to EN 6064.3 - Nither against fouling acc. to EN 6064.3 Yes; Class 2 for high reliability - Protection Yes; Class 2 for high reliability - Protection against fouling according to Milay according to	60721-3-6	degree 3); *			
60721-3.6 Usage in industrial process technology		o <i>i</i> .	•- *		
- Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene) - Environmental contiling for process, measuring and control system acc. to ANSUISA-71.04 Yes; Level GX group AB (excluding trichlorethylene) Remark - Nonregarding dassification of environmental coating operations up to the limits of EN PO271-3 dass 3 dass patible); level LC3 (sait spray) and level LB3 (oil) - Nonregarding dassification of environmental coating * The supplied plug covers must remain in place over the unused interfaces during operation! - Nonregarding dassification of environmental coating * The supplied plug covers must remain in place over the unused interfaces during operation! - Nonregarding dassification of environmental coating operation! * The supplied plug covers must remain in place over the unused interfaces during operation! - Nonregarding dassification of environmental coating operation! Yes; Class 2 for high reliability - Protection Yes; Class 2 for high reliability - Outering and not Performance of Electrical Insuence Yes; Class 3 - Repartic Yes; Class 3 - Plastic Yes; Class 3 - Plastic Yes; Class 3 - Plastic Yes - Plastic Yes - Plastic Yes - Plastic 27:24:22:04 - Plastic 27:2			,		
600514 Environmental conditions for process, measuring and control systems acc. to ANSU/SA-71.04 Ves: Level GX group A/B (excluding trichlorethylene: hamful gas concentrations up to the limits of EN 60721-33 class 3C4 permissible), level LC3 (calt apray) and level LB3 (olf) Remak Inditions acc. to EN 60721, EN 60564 4 and ANSU/SA-71.04 Conformal coaling Catings for printed fouring board assemblies acc. to EN 61068 * The supplied plug covers must remain in place over the unused interfaces during operation? Ves: Class 2 for high reliability Catings for printed fouring acc. to EN 6064-3 Cating for printed fouring according to MIL-460656C, Amendment 7 Catification and Parformance of Electrical insulating Compound for Printed Board Assemblies according to IPC- CC-303A Yes: Class 2 for high reliability Yes: Oxformal coaling. Class A metcion method equired front Connector Yes Yes enditions and Parformance of Electrical insulating Compound for Printed Board Assemblies according to IPC- CC-303A Yes metcion method equired front Connector Yes Yes vegine for the formation of Printed Sourd Assemblies according to Pri	Usage in industrial process technology				
and control systems acc. to ANS/ISA-71.04 concentrations up to the limits of EN 6072:1-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (ol) Remark - Add regarding classification of environmental ANS/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operations		Yes; Class 3 (excluding trichlor	ethylene)		
Remark		concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level			
conditions acc. to EN 60721. EN 60054-4 and ANSIGX8-71.04 during operation! coatings for printed circuit board assemblies acc. to EN 1006 Yes; Class 2 for high reliability Foreign 2 (1) e. Coatings for printed circuit board assemblies acc. to EN 1006 Yes; Type 1 protection Yes; Discolation of coating possible during service life e. Protection against fouling acc. to EN 60664-3 Yes; Conformal coating, Class A Yes; Discolation of coating possible during service life coating for printed board Assemblies according to PC- CC-630A Yes; Conformal coating, Class A Yes; metcion method Yes; Conformal coating, Class A Yes; Yes; equired ford coornector Yes Yes; Yes; Yes; enclass/material Yes Yes; Yes; method 45 mm Yes; Yes; method 46 mm Yes; Yes; method 75 mm Yes; Yes; registria 260 g Yes; Yes; stiffcattons 21 27.24.22.04 Yes; registria 27.24.22.04 Yes; Yes; registria 27.2	Remark		()		
econtormal coating • Coatings for printed circuit board assemblies acc. to EN f1026 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-146058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-330A nnaction method nnaction method • Plastic • Plastic	conditions acc. to EN 60721, EN 60654-4 and		st remain in place over t	ne unused interfaces	
e.catings for printed circuit board assemblies acc. to EN 61086Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Conformal coating possible during service life Yes; Conformal coating, Class A• Qualification and Performance of Electrical Insulating Coc.26.30.A meetion matchadYes; Conformal coating, Class A• Qualification and Performance of Electrical Insulating Coc.26.30.A meetion matchadYes; Conformal coating, Class A• Patter of Phrited Board Assemblies according to IPC Coc.33.AYes; Conformal coating, Class A• Patter of Phrited Board Assemblies according to IPC Coc.33.AYes; Conformal coating, Class A• Patter of Phrited Board Assemblies according to IPC Coc.33.AYes; Conformal coating, Class A• Patter of Phrited Board Assemblies according to IPC Coc.33.AYes; Conformal coating, Class A• Patter of Phrited Board Assemblies according to IPC Coc.33.AYes; Conformal coating, Class A• Patter of Phrited Board Assemblies according to IPC Coc.33.AYes; Conformal coating, Class A• Patter of IPC Phrited Internot IPCYes; Conformal coating, Class A• Patter of IPC Phrited Internot IPCYes• Patter of IPCYes					
6108 Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Military testing according to MIL-146058C, Amendment 7 Yes; Type 1 protection Yes; Conformal coating, Class A Coc.430A Yes; Conformal coating, Class A Image: Control of Printed Board Assemblies according to IPC- Coc.430A Yes; Conformal coating, Class A Image: Control of Coating possible during service life Yes; Conformal coating, Class A Image: Control of Coating possible during service life Yes; Conformal coating, Class A Indextrematerial Yes; Conformal coating, Class A Image: Control of Coating possible during service life Pastic Yes; Conformal coating, Class A Image: Control of Coating possible during service life Indextrematerial Yes; Conformal coating, Class A Image: Control of Coating possible during service life Indextrematerial Yes; Conformal coating, Class A Image: Control of Coating possible during service life Indextrematerial Yes; Conformal coating, Class A Image: Control of Coating possible during service life Indextrematerial Yes; Conformal coating, Class A Image: Control of Coating possible during service life Yes; Conformal coating, Class A Yes; Conformal coating, Class A Image: Coating to the coat		Yes: Class 2 for high reliability			
• Military testing according to MIL-146058C, Amendment 7 Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A metcion method equiled font connector Yes enance/material Yes indicis/material Yes indicis/material Yes enance/material Yes indicis/material Yes indicis/material Yes indicis/material Yes indicis/material Yes indicis/material Yes with 45 mm ieght 100 mm yes Yes with, approx. 260 g estifications 12 Yes 2724-2204 eClass 12 2724-2204 eClass 9 2724-2204 eClass 9 2724-2204 eClass 6 2724-2204 eClass 8 2724-2204 eClass 8 2724-2204 eClass 6 2724-2204 eClass 8		,			
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-300AYes: Conformal coating, Class A• Interdedequired front connectorYes• Chanles/materialYes• PlasticYes• PlasticYes• PlasticYes• Plastic75 mm• Ideptity260 g• Stands/material100 mm• Plastic75 mm• Ideptity260 g• Stands14• Stands12• Stands12• Stands12• Stands12• Stands12• Stands9• Stands9• Stands9• Stands9• Stands12• Stands9• Stands12• Stands9• Stands12• Stands13• Stands14• Stands14• Stands14• Stands </td <td></td> <td></td> <td></td> <td></td>					
Compound for Printed Board Assemblies according to IPC- CC-830A nnection method aquired front connector yes chanics/inatorial inclosure material (front) Plastic Plastic Yes nensions Veth 45 mm 100 mm Pepth 75 mm rights Veght, approx. 260 g assifications Version Classification ights Version Classification ights Version Classification ights				e	
Yes chanics/material inclos/material inclos/material inclos/material inclos/material inclos/material inclos/material inclos/material inclos/material inclos/material version version <td>Compound for Printed Board Assemblies according to IPC-</td> <td>Yes; Conformal coating, Class</td> <td>A</td> <td></td>	Compound for Printed Board Assemblies according to IPC-	Yes; Conformal coating, Class	A		
Version Version • Plastic Yes • Version 20 mm Version 260 g • Service Yes • Version Classification • Class 14 27-24-22-04 • Class 12 27-24-22-04 • Class 9 27-24-22-04 • Class 8 27-24-22-04 • Class 9 27-24-22-04 • Class 8 27-24-22-04 • Class 7.1 27-24-22-04 • Class 6 27-24-22-04 • Class 6 <td>nnection method</td> <td></td> <td></td> <td></td>	nnection method				
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