SIEMENS

Data sheet

6ES7222-5BF50-0XB0



SIMATIC S7-1200 G2: SB 1222 digital output, 8 DO 100 kHz; outputs: 8x DQ 24 V DC 0.1 A sinking/sourcing transistor, 100 kHz

Figure similar

General information	
Product type designation	SB 1222, DQ 8x 24 V DC 100 kHz
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	24 V 20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	20.0 V
from backplane bus 5 V DC, typ.	30 mA
Digital outputs	001111
from load voltage L+, max.	15 mA
Power loss	
Power loss, typ.	1 W
Digital outputs	1 **
Number of digital outputs	8
• in groups of	8
Short-circuit protection	o Yes
Switching capacity of the outputs	
with resistive load, max.	0.1 A
Output voltage	
Rated value (DC)	24 V
• for signal "0", max.	1 V
• for signal "1", min.	L+ (-1.5 V)
Output current	
for signal "1" rated value	0.1 A
Output delay with resistive load	
• "0" to "1", max.	1.8 µs
• "1" to "0", max.	1.8 µs
Total current of the outputs (per group)	
horizontal installation	
— up to 50 °C, max.	0.4 A
Cable length	
 shielded, max. 	500 m; 500 m shielded, 50 m shielded for PTO outputs
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes

• NAC LED Yes • for status of the outputs Yes Patential separation Patential separation Patential separation digital separation No • between the channels. In groups of 8 • Number of potential groups 1 • Between the channels. In groups of 9 • Number of potential groups 1 • Depresent descent sep of potential groups 1 • Program of descent sep of potential groups 1 • Defract and descent sep of potential groups 1 • Defract and descent sep of potential groups 1 • Defract and descent sep of potential groups 1 • Defract and descent sep of potential groups 1 • Defract and descent sep of potential groups 1 • Defract and descent sep of potential groups 1 • Defract and descent sep of potential groups 1 • Other and sep of potential groups 1 • Defract and descent sep of potential groups No • Anne approval No • Fail height max. 0 • Fail height max. 0 • Fail he	Diagnostics indication LED		
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• max. 70 °C Air pressure acc. to IEC 60068-2-13 • • Operation, min. 540 hPa • Operation, max. 1140 hPa • Storage/transport, min. 540 hPa • Storage/transport, max. 1140 hPa • Altitude during operation relating to sea level • • Installation altitude, min. -1 000 m • Installation altitude, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Relative humidity • • Operation resistance during operation neacc. to IEC 60068-2 95 % • Vibration 3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz 2-6 • Yes • Operation, tested according to IEC 60068-2-6 Yes Shock testing Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations so2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	Ambient temperature during storage/transportation		
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• Installation altitude, min. -1 000 m • Installation altitude, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Relative humidity • Operation at 25 °C without condensation, max. 95 % Vibrations 95 % • Vibration resistance during operation acc. to IEC 60068- 2-6 3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz • Operation, tested according to IEC 60068-2-6 Yes Shock testing • • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free			
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Relative humidity 95 % • Operation at 25 °C without condensation, max. 95 % Vibrations 3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz • Vibration resistance during operation acc. to IEC 60068- 2-6 3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz • Operation, tested according to IEC 60068-2-6 Yes Shock testing - • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations - • SO2 at RH < 60% without condensation			
• Operation at 25 °C without condensation, max. 95 % Vibrations • Vibration resistance during operation acc. to IEC 60068- 2-6 3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz • Operation, tested according to IEC 60068-2-6 Yes Shock testing • Visci IEC 60068-2-27 • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations • SO2 at RH < 60% without condensation		,	
Vibrations • Vibration resistance during operation acc. to IEC 60068- 2-6 3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz • Operation, tested according to IEC 60068-2-6 Yes Shock testing Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	-	95 %	
• Vibration resistance during operation acc. to IEC 60068- 2-63.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz• Operation, tested according to IEC 60068-2-6YesShock testing• tested according to IEC 60068-2-27Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 msPollutant concentrations• SO2 at RH < 60% without condensation			
• Operation, tested according to IEC 60068-2-6 Yes Shock testing • • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations • • SO2 at RH < 60% without condensation	Vibration resistance during operation acc. to IEC 60068-	3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz	
Shock testing • tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations • SO2 at RH < 60% without condensation		Yes	
• tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations • SO2 at RH < 60% without condensation			
Pollutant concentrations • SO2 at RH < 60% without condensation			
• SO2 at RH < 60% without condensation	Pollutant concentrations	duration 11 ms	
Mechanics/material Enclosure material (front) Yes • Plastic Yes Dimensions 15 mm		S02: < 0.5 ppm; H2S: < 0.1 ppm: RH < 60% condensation-free	
Enclosure material (front) Yes • Plastic Yes Dimensions 15 mm			
• Plastic Yes Dimensions 15 mm			
Dimensions Width 15 mm		Yes	
Width 15 mm			
		15 mm	
Depth 63 mm	· · · ·	63 mm	
Weights	Weights		
Weight, approx. 29 g	Weight, approx.	29 g	

last modified:

1/22/2025 🖸