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Power Supply

PSS PS, PSS PS 24, PSS1 PS 24



Power supply with integral protection and monitoring circuits, for use as part of a modular safety-related system.

Features

- Failsafe modules have type-approval
- Whole system is approved by BG and TÜV
- 24 VDC version for PSS 3000 and PSS 3100
- 115/230 VAC version for PSS 3000
- Integral protection and monitoring circuits

Approvals

	PSS PS	PSS PS 24	PSS1 PS 24
	●	●	●
	●	●	●
	●		
	●	●	●
AIBV	●		

Technical Details	PSS PS	PSS PS 24	PSS1 PS 24
Function	Power supply		
Application Range	Failsafe applications conforming to EN 954-1, 11/94, DIN V 19 250, 01/89, DIN VDE 0116		
Electrical Data			
Supply Voltage	115/230 VAC selectable	24 VDC –	24 VDC –
Tolerance	+10 %, -15 % –	20.4 V to 28.8 V Ripple: max. ± 1.2 V	20.4 V to 28.8 V Ripple: max. ± 1.2 V
Frequency Range	48 ... 62 Hz	–	–
Output Voltage	5.0 VDC/ max. constant load: 10 A	5.0 VDC/ max. constant load: 10 A	5.0 VDC/ max. constant load: 5 A
	12 VDC/0.25 A, short circuit-proof, current-limited		
Derating	-	from 1.500 m: -2 mA/m, at 4.000 m (max.): 5 A	from 1.500 m: -1 mA/m, at 4.000 m (max.): 2.5 A
Power Consumption	80 VA	80 W	50 W
Switch-on Current	25 A	4 A	16 A
Operation	Switched mode	Regulated	Regulated
Interference Suppression	B (VDE 0871)	B (VDE 0871)	B (VDE 0871)
Battery	Type: Lithium 3.0 V, Size AA, Service life: approx. 2 years Order number: 374 120		
Mechanical Data			
Size (H x W x D)	257 x 61 x 220 mm	257 x 61 x 220 mm	265 x 41 x 218 mm
Weight	1540 g	1750 g	840 g
Environmental Data			
Protection Type	IP 20, installed on module rack		
Ambient Temperature	0 ... +60 °C	0 ... +60 °C	0 ... +60 °C
Storage Temperature	-25 ... +70 °C	-25 ... +70 °C	-25 ... +70 °C
Climatic Suitability	IEC 68-2-30, IEC 68-2-14		
Condensation	Not permitted		
Vibration to IEC 68-2-6	Frequency range: 10 ... 100 Hz Amplitude: 0.1 mm, max. 5 g		

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Power Supply

PSS PS, PSS PS 24, PSS1 PS 24

Description

The power supplies PSS PS (24) and PSS1 PS 24 generate all the operating voltages required to operate a safety-related system from the external supply voltage. Internal test algorithms monitor the correct function of the module; an LED shows that it is operating correctly. An exchangeable buffer battery supplies all the “non-volatile memories” as well as the real-time clock. The use of screw connectors makes connection easy.

Order References	PSS PS	PSS PS 24	PSS1 PS 24
System	PSS 3000	PSS 3000	PSS 3100
Description	PSS PS	PSS PS 24	PSS1 PS 24
Order Number	301 050	301 051	302 051

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