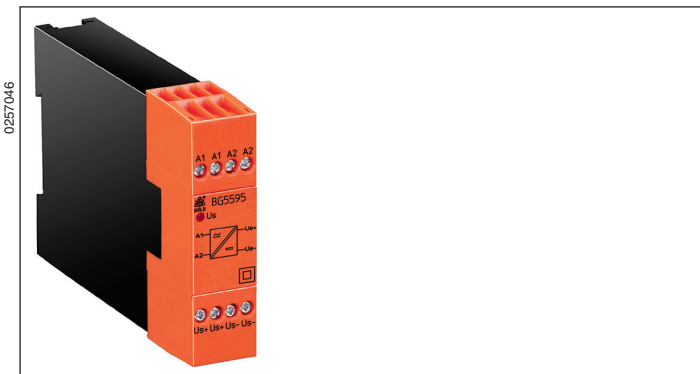
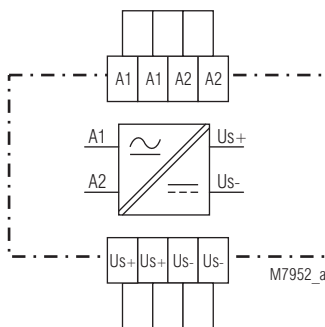


Switched Power Supply
BG 5595

- According to IEC/EN 60 950, EN 55 011, EN 55 022
- Secondary voltage DC 24 V up to 1 A
- Short circuit and overload protection
- Width 22.5 mm

Circuit Diagram



Approvals and Marking



Application

For supplying 24 V DC voltage.

Function

The switched power supply unit provides an unregulated DC voltage of 24 V on the output. Due to the operating principle with primary controlled circuit giving an efficiency of approx. 85 % the power dissipation is cut down to a minimum.

Indicator

LED green: on when secondary voltage connected

Technical Data

Primary voltage:	AC/DC 110 ... 230 V The output voltage is available on 2 pairs of terminals (A1 and A2) These are connected internally in parallel.
Voltage range	
AC:	70 ... 265 V
DC:	85 ... 300 V
Primary current at nominal voltage U_N:	
no-load operation	20 mA
at AC 230 V:	7 mA
at AC 110 V:	16 mA
at DC 110 V:	10 mA
Efficiency:	approx. 85 %
Secondary voltage:	DC 24 V \pm 10 % The output voltage is available on 2 pairs of terminals. (U_{S+} and U_{S-}) These are connected internally in parallel.
Secondary current:	max. 1 A
Residual ripple at max. load:	\leq 1 %
Current limitation:	Short circuit and overload protection by means of PTC resistor (primary side)

Technical Data

General Data

Operating mode:	Continuous operation	
Temperature range:	- 20 ... + 45°C	
Insulating strength:	4 kV, 50 Hz, 1min.	
Clearance and creepage distances		
overvoltage category / contamination level:	6 kV / 2	IEC 60 664-1
EMC		
Electrostatic discharge:	8 kV (air)	IEC/EN 61 000-4-2
HF-irradiation:	10 V / m	IEC/EN 61 000-4-3
Fast transients:	4 kV	IEC/EN 61 000-4-4
Surge voltages between		
wires for power supply:	2 kV	IEC/EN 61 000-4-5
HF-wire guided:	10 V	IEC/EN 61 000-4-6
Interference suppression:	Limit value class B	EN 55 011
Degree of protection:		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Enclosure:	Thermoplastic with V0 behaviour according to UL subject 94	
Vibration resistance:	Amplitude 0.35 mm frequency 10 ... 55 Hz IEC/EN 60 068-2-6	
Climate resistance:	20 / 045 / 04	IEC/EN 60 068-1
Terminal designation:	EN 50 005	
Wire connection:	2 x 2.5 mm ² solid or 2 x 1.5 mm ² stranded ferruled DIN 46 228-1/-2/-3/-4	
Wire fixing:	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1	
Mounting:	DIN rail IEC/EN 60 715	
Weight:	200 g	

Dimensions

Width x height x depth: 22.5 x 84 x 121 mm

Standard Type

BG 5595	AC/DC 110 ... 230 V	50 / 60 Hz
Article number:	0055045	
• Secondary voltage:	DC 24 V	
• Primary nominal voltage U _N :	AC/DC 110 ... 230 V	
• Width:	22.5 mm	

Ordering Example

BG 5595	---	50 / 60 Hz	
	---		Nominal frequency
	---		Primary nominal voltage U _N
	---		Type