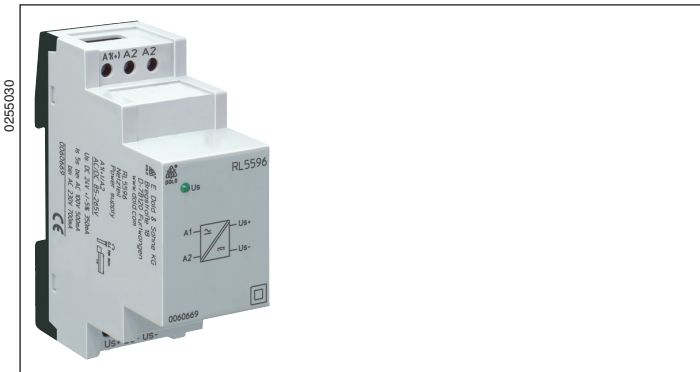
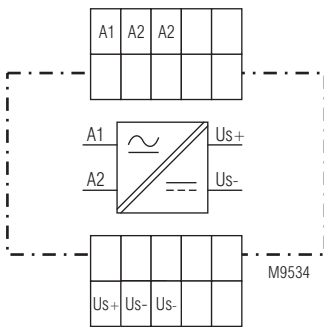


Switched Power Supply
RL 5596



- Space saving in industrial cabinets because compact construction type
- Universal use with wide voltage range
- High efficiency
- According to IEC/EN 60 950, EN 61 558
- Protection class II, according to EN 61 558-1
- Secondary voltage DC 24 V up to 350 mA
- Short circuit protection and overload protection
- Width: 35 mm

Circuit Diagram



Approval and Marking



Application

For DC-voltage 24 V

Function

The switched power supply provides a controlled DC voltage of 24 V \pm 5 %.

Indication

LED green: on when secondary voltage connected

Notes

With large capacitive load the power supply detects short circuit on power up. If the secondary voltage of 24 V is not reached within 64 ms the power supply switches off. After 2 sec a new attempt is started.

Technical Data

Primary voltage:	AC/DC 85 ... 265 V The terminal A2 is double. Internally these terminals are connected in parallel.
Voltage range	
AC:	85 ... 265 V
DC:	85 ... 300 V
Primary current at nominal voltage U_N:	
no-load operation	
at AC 230 V:	6 mA
at DC 230 V:	2 mA
at AC 110 V:	8 mA
at DC 110 V:	4 mA
Efficiency:	approx. 80 %
Secondary voltage:	DC 24 V \pm 5 % The terminal U_s is double. Internally these terminals are connected in parallel.
Secondary current:	350 mA continuously
Short time current, 5 s	
at AC 100 V:	max. 500 mA
at AC 230 V:	max. 700 mA
Residual ripple at max. load:	0.1 %
Current limiting:	electronic short circuit protection and overload protection

Technical Data

General Data

Nominal operating mode:	continuous operation	
Temperature range:	- 20 ... + 60°C	
clearance and creepage distance		
rated impuls voltage / pollution degree:	6 kV / 2	IEC 60 664-1
EMC		
electrostatic discharge (ESD):	8 kV (air)	IEC/EN 61 000-4-2
HF irradiation:	10 V / m	IEC/EN 61 000-4-3
Fast transients: surge voltage between wires for power supply:	4 kV	IEC/EN 61 000-4-4
HF-wire guided:	1 kV	IEC/EN 61 000-4-5
Interference suppression:	10 V	IEC/EN 61 000-4-6
		EN 61 000-6-3
Degree of protection:		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Enclosure: thermoplastic with VO behaviour according to UL Subjekt 94		
Vibration resistance: amplitude 0,35 mm frequency 10 ... 55 Hz, IEC/EN 60 068-2-6 20 / 045 / 04 IEC/EN 60 068-1		
Climate resistance:		
Terminal designation: EN 50 005		
Wire connection 1 x 2.5 mm ² solid or 1 x 2.5 mm ² stranded wire with sleeve DIN 46 228-1/-2/-3/-4		
Wire fixing: clamping screw M 2.5 box terminal with wire protection		
Fixing torque:	0.4 Nm max.	IEC/EN 60 999-1
Strip length:	7.5 mm	
Mounting:	DIN-rail	IEC/EN 60 715
Weight:	85 g	

Dimensions

Width x height: x depth: 35 x 90 x 71 mm

Standard Type

RL 5596 AC/DC 85 ... 265 V	50 / 60 Hz
Article number:	0060669
• Secondary voltage:	DC 24 V
• Primary nominal voltage U_N :	AC/DC 85 ... 265 V
• Width:	35 mm

Ordering Example

RL 5596	---	50 / 60 Hz	
	---		Nominal frequency
	---		Primary voltage
	---		Type