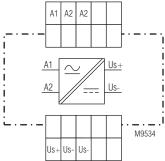
# Switched Power Supply RL 5596





- 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**



#### **Connection Terminals**

Terminal designation	Signal designation
A1, A2	Auxiliarx voltage AC or DC
Us+, Us-	Secondary voltage DC 24 V

## **Approvals and Markings**



#### **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 attemt 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<sub>N</sub>: 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: electonic short circuit protection

and overload protection

#### **Technical Data**

#### General Data

Nominal operating mode: continuous operation

Temperature range:

Operation

secondary voltage

350 mA:  $-20 \dots + 50^{\circ}\text{C (mounted with distance)}$  250 mA:  $-20 \dots + 60^{\circ}\text{C (mounted with distance)}$  350 mA:  $-20 \dots + 60^{\circ}\text{C (mounted without distance)}$ 

Storage: - 25 ... + 70°C **Altitude:** < 2.000 m

Clearance and creepage distance

rated impulse 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:

80 MHz ... 2.7 GHz: 10 V / m IEC/EN 61 000-4-3 Fast transients: 4 kV IEC/EN 61 000-4-4

surge voltage

between

wires for power supply: 1 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 Emitted interference: EN 61 000-6-3

Dregee 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

Climate resistance: 20 / 060 / 04 IEC/EN 60 068-1

Terminal designation: EN 50 005

**Wire connection** DIN 46 228-1/-2/-3/-4

Cross section: 0.34 ... 2.5 mm² (AWG 22 - 14) solid

or

0.34 ... 2.5 mm² (AWG 22 - 14) stranded wire with and without ferrules

Strip length: 7 mm

Wire fixing: captive slotted screw M 2.5

 Fixing torque:
 0.5 Nm max.
 IEC/EN 60 999-1

 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<sub>N</sub>: AC/DC 85 ... 265 V

Width: 35 mm

# Ordering Example

