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Find the *Carlo Gavazzi SPD241201* at our website: ***Click HERE***

Switching Power Supply
Type SPD 24 30
DIN Rail mounting



- **Universal AC Input Full range**
- **Installation on DIN Rail 7.5 or 15mm**
- **Short circuit protection**
- **Overload protection**
- **High efficiency**
- **LED indicator for power on**
- **Power Ok output**
- **CE, TUV approved and cULus Listed**

Product Description

The Switching power supplies SPD series are specially designed to be used in all automation application where the Installation is on a DIN rail and compact dimensions and performance are a must.

Ordering Key

SP D 24 30 1 B

- **Model**
- **Mounting (D = Din rail)**
- **Output voltage**
- **Output power**
- **Input Type**
- **Optional features**

Input type: 1= single phase

Approvals

Optional Features

Description	code
Spring connectors	B

Output data

Output nominal voltage	**24Vdc***	**Transient recovery time**	**300 ms**
Current	**1.25 A**	**Ripple and noise**	**50mVpp**
Output voltage range	**24 to 28 Vdc**	**Efficiency typ.**	**84%**
Line regulation	**± 1%**	**Ouput Voltage accuracy**	**± 2%**
Load regulation	**± 2%**	**Temperature coefficient**	**± 0.02%/°C**
		Hold up Time Vi = 115Vac	**20ms**
		Hold up time Vi = 230Vac	**75ms**

Input data

Rated input voltage	**100 - 240**	**Frequency range**	**47- 63 Hz**
Voltage range		**Inrush current**	
AC	**90 - 265 Vac**	Vi= 115Vac	**16A**
DC	**120 - 370 Vdc**	Vi= 230Vac	**32A**

* 5Vdc, 12Vdc and 48Vdc available, see specific data sheets

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Controls and Protections

Overload	**105 – 125%**	**Output Short Circuit**	**Hiccup mode**
Input Fuse	**T2A/250Vac internal***	**Power ready**	**20-24 Vdc**

General data (@ nominal line, full load, 25°C)

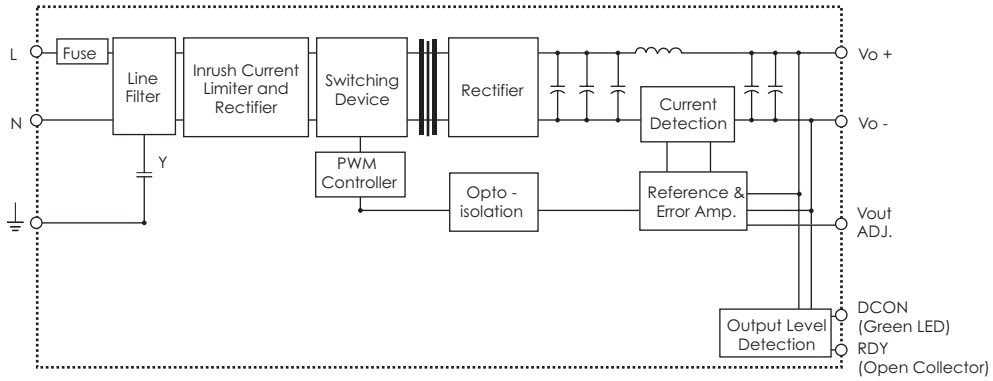
Ambient temperature	**-10°C to 71°C**	**Cooling**	**Free air convection**
Case temperature V/I nom	**+85°C**	**Switching frequency**	**50kHz**
Derating (>60°C to +71°C)	**2.5%/°C**	**MTBF (MIL-HDBK-217F)**	**200.000h**
Ambient humidity	**<90%RH**	**Case material**	**Plastic**
Storage	**-25°C to +85°C**	**Dimensions L x W x D**	**90 x 40.5 x 115**
Protection degree	**IP20**	**Weight**	**290g**

Approvals and EMC

Insulation voltage I / O	**3.000Vac**	**CE**	**EN55022 Class B EN55024 EN61000-3-2 EN61000-3-3**
Insulation resistance	**100Mohm**		
UL / cUL	**UL508 listed, UL1950, UL1310 Class 2 Recognised**		
TUV	**EN60950**		

* fuse not replaceable by user

Block diagrams



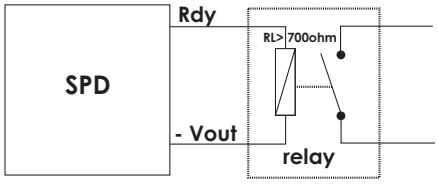
Pin assignement and front controls

Pin No.	Designation	Description
1	**RDY**	DC OK, output for relay (only on 24Vdc models)
3	**+**	Positive output terminal
4	**+**	Positive output terminal
5	**-**	Negative output terminal
6	**-**	Negative output terminal
7	**GND**	Ground terminal to minimise High frequency emissions
8	**L**	Phase input (no polarity with DC input)
9	**N**	Neutral input (no polarity with DC input)
	Vout ADJ.	Trimmer for fine output voltage adjustment
	DC ON	DC output ready LED

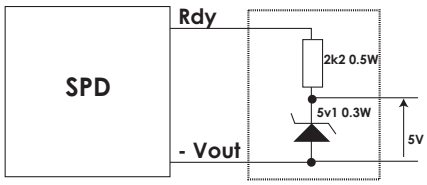
Specifications are subject to change without notice

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Output Rdy Wiring diagram

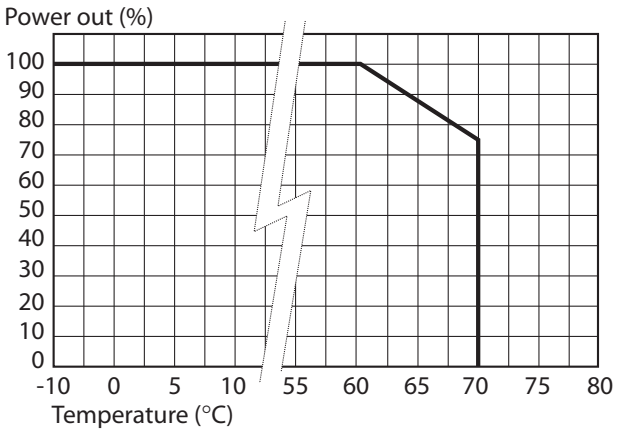


Relay connection diagram

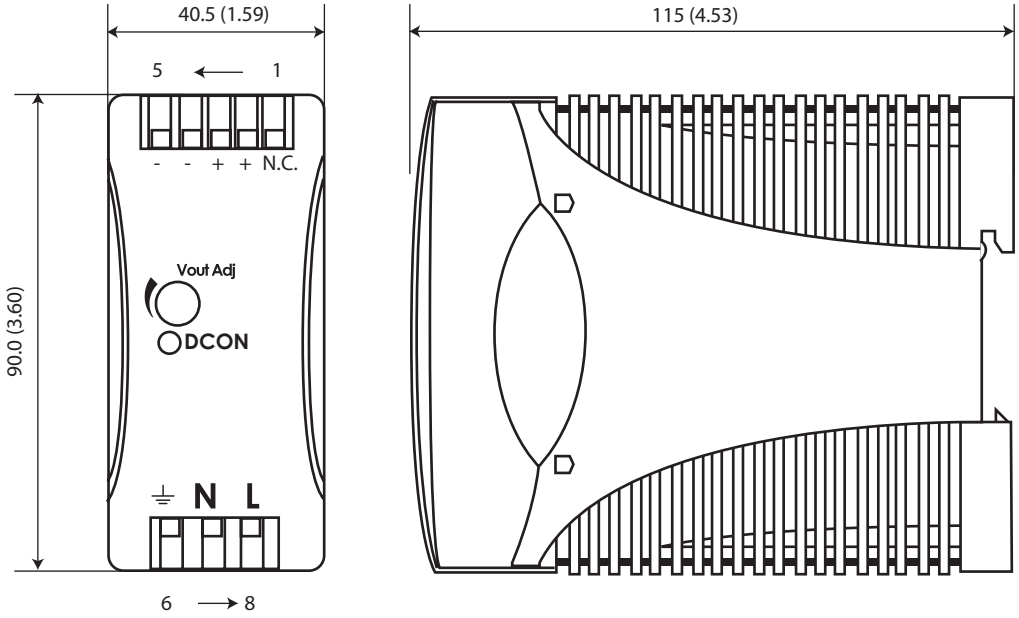


5V signal

Derating Diagram



Mechanical Drawings



Installation

Ventilation and cooling	Normal convection All sides 25mm free space for cooling is recommended
Connector size range	Solid: 0.2 – 2mm² (AWG24-14) (use copper conductors only)

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