

FLEX28024A



Input: 115 – 230 Vac
Output: 24 Vdc 60°C
Efficiency up to 89%
Strong overload without switch-off, up to 50%
Flexible Power continuity: from 240 to 336 W
“Power Good” Relay
Three mode of output protections:

- 1) Hiccup mode
- 2) Continuous Out Mode
- 3) Manual Reset

DIN Rail Mountable
Extremely small size
3 Years warranty

Input Data

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|--|--------------------------------|
| Nominal Input Voltage (2 x Vac) | |
| Manual select Input from 115 to 230 | 115 – 230 Vac |
| Input Voltage range: (115) | 90-135 Vac |
| (230) | 170-264 Vac 238-370 Vdc |
| Inrush Current (Vn and In 40°C) | ≤ 42 A ≤ 5 msec. |
| Frequency | 47 – 63 Hz |
| Input Current (115 – 230 Vac, In 40°C) | 4.4 – 2.2 A |
| Internal Fuse | T 6.3 A |
| External Fuse (recommended) | 16 A (MCB curve B) |

Output Data

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|---|---|
| Output Voltage (Vn) Factory Setting ±3% | 24 Vdc |
| Adjustment range (Vadj) | 22 – 27 Vdc |
| Start up with Strong Load (capacitive load) | ≤50.000µF |
| Turn-On delay after applying mains voltage | 1 sec. (max) |
| Rated Current at 24 V 40°C (In) | 14 A |
| Rated Current at 24 V 50°C (In) | 12 A |
| Rated Current at 24 V 60°C (In) | 10 A |
| Power Boost Current at 24 Vdc 60°C(In) | In 60 °C x 1.5 ≥ 3 min. |
| Current max. Overload ≅ 4Vdc (permanent) | I_{max}=In60 °Cx(1.8 - 2.2) |
| Maximum Short Circuit Current I _{cc} | |
| Hiccup mode: Max 2 sec. Continuous Mode | 30 A |
| Hold-up Time (min. Vac) Vn In 40°C | Typ. 20 msec |
| Residual Ripple | ≤ 80 mV_{pp} |
| Efficiency | ≥ 89 % |
| Over temperature Protection | Yes. Shut-down output and automatic restart. |
| Short-circuit protection | 1° Hiccup Mode |
| | 2° Continuous mode |
| | 3° Restart After Main |
| Max Dissipation Power at Vn In 40°C | 42 W |
| Over Load protection | Yes |
| Over Voltage Output protection | Yes (typ. 35 Vdc) |
| Parallel connection | Yes. “Easy Parallel” |
| Power Good Contact rating (EN60947.4.1): | |
| Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A | Resistive load |
| Min.1mA at 5 Vdc | Min permissible load |

Climatic Data

| | |
|------------------------------------|---|
| Ambient Temperature operation | -25 up to +70 °C (>60°derating 2.5% °C) |
| Ambient Temperature Storage | -40 up to +85 °C |
| Humidity at 25 °C, no condensation | 95 % to 25 °C |

General Data

| | |
|---------------------------------------|-----------------------------|
| Isolation Voltage (In / Out) | 3000 Vac |
| Isolation Voltage (In / PE) | 1605 Vac |
| Isolation Voltage (Out / PE) | 500 Vac |
| Protection Class (EN/IEC 60529) | IP 20 |
| Reliability: MTBF IEC 61709 | > 500.000 h |
| Pollution Degree Environment | 2 |
| Connection Terminal Blocks Screw Type | 2,5 mm (24 – 14 AWG) |
| Protection class | I with PE connected |
| Dimension (w-h-d) | 72x115x135 mm |
| Weight | 0.85 kg approx. |

Norms and certifications

The CE mark in According to EMC 2014/30/UE and Low voltage directive 2014/35/UE.

Electrical Safety

In compliance to UL508. EN IEC 61010-2-201:2018
According to IEC/EN 60950 (VDE 0805) e EN 50178 (VDE 0160) for assembling device. The unit must be installed according to IEC/EN 60950. Input / Output separation: SELV EN60950-1 and PELV EN 60204-1. Double or reinforced insulation.

EMC Immunity

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-6-2

EMC Emission:

EN61000-6-4; EN61000-3-3

Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

