FLEX28024A

336 W AC/DC Power Supply Unit – DIN rail

CoolPower Solutions

- Single Phase Input 90 – 135 VAC or 170 - 264 VAC, 47-63 Hz
- Output 24 VDC 60 °C
- Efficiency up to 89 %
- Strong overload without switch-off, up to 50%
- Flexible Power continuity : from 240W to 336 W
- Power Good relay
- Three mode of output protections:
  Hiccup mode, Continuous out mode and Manual reset
- DIN Rail Mountable
- Extremely small size



Electrical specifications

Input Data	
Voltage Range	90 - 135 VAC
(manual selectable)	170 – 264 VAC
Frequency	47 - 63 Hz
Inrush Current (Vn-In nom.load)	≤ 42 A ≤ 5 ms
Input Current (115 VAC – 230 VAC)	4,4 – 2,2 A
Internal Fuse, not replaceable	T6,3 A
External Fuse recommended MCB curve B	16 A

Output Data	
Output Voltage (Vn) Factory setting ±3%	24 VDC
Adjustment range (Vadj)	22 - 27 VDC
Start up with Strong Load (capacitive load)	≤50.000µF
Efficiency	≥89%
Turn-on delay after applying mains voltage	1,0 s 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)x1,5 ≥3min
Current max. Overload a.4Vdc permanent	=In60°Cx(1.8 - 2.2)
Current Short Circuit Icc	
(Hiccup mode: Max 2 sec.)	
(Continuous Mode)	30 A
Hold-up Time (min. Vac) Vn In 40°C	Typ. 20 msec
Residual Ripple	≤ 80 mVpp
Over temperature Protection	Yes
(Shut-down output and automatic restart)	
Dissipation power load max Vn In 40°C	42 W
Short-circuit Protection	1° Hiccup Mode
	2° Continuous Mode
	3° Restart after main

Over Load Protection	Yes
Over Voltage Output Protection	Yes, typ 35 VDC
Parallel connection	Yes
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 permissive load

Climatic Data	
Ambient operation Temperature	-25 - +70°C
Derating	>60°derating 2.5% °C
Ambient stocking Temperature	-40 - +85°C
Humidity at 25 °C no condensation	95%, 25°C
Cooling	Free air convection

General Data	
Insulation Voltage (Input/Output)	3000 VAC
Insulation Voltage (Input/Ground)	1605 VAC
Insulation Voltage (Output/Ground)	500 VAC
Protection Class (EN/IEC 60529)	IP20
Reliability: MTBF IEC 61709	> 500 000 h
Pollution Degree Environment	2
Connection Terminal Blocks, screw type	2,5 mm (24-14 AWG)
Protection Class (PE connected)	I, with PE
Dimensions (WxHxD)	72 x 115 x 135 mm
Weight	0,65 kg

Norms and certifications

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

Electrical Safety

In compliance to UL508.
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, -3,-4, -5, -6, EN61000-6-2

EMC Emission:

EN61000-6-4, EN61000-3-2, -3

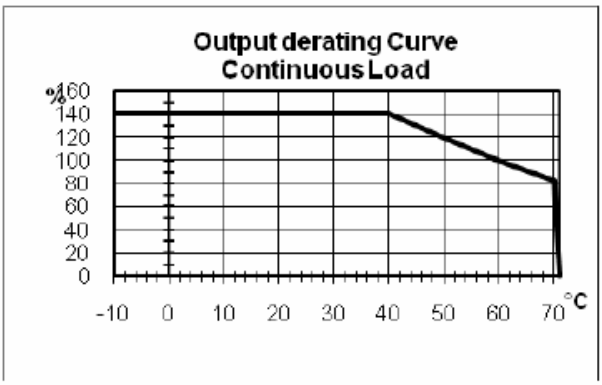
Standards Conformity

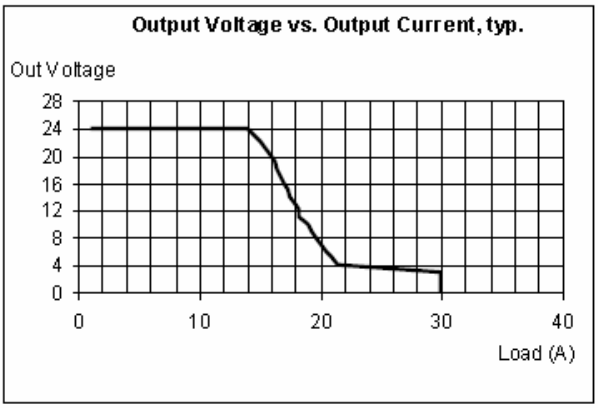
EN 60204-1 Safety of Electrical Equipment Machines

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