

# FLEX50024B



**Input: 3-phase: 400 – 500 Vac**

**Output: 24 Vdc 60°C**

**Efficiency up to 91%**

**Strong overload without switch-off, up to 50%**

**Flexible Power continuity: from 480 to 600W**

**“Power Good” Relay**

**Three mode of output protections:**

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

**DIN Rail Mountable**

**Extremely small size**

**3 Years warranty**

## Input Data

Nominal Input Voltage (3 x Vac)	<b>400 – 500</b>
Input Voltage range (Vac)	<b>330 – 550</b>
Inrush Current (Vn and In 40°C)	<b>≤ 35 A ≤ 5 msec.</b>
Frequency	<b>47 – 63 Hz</b>
Input Current (400 – 500 Vac, In 40°C)	<b>1.27 – 1.01 A</b>
Internal Fuse	<b>T 6.3 A</b>
External Fuse (recommended)	<b>16 A (MCB curve B)</b>

## Output Data

Output Voltage (Vn) Factory Setting ±3%	<b>24 Vdc</b>
Adjustment range (Vadj)	<b>22 – 27 Vdc</b>
Start up with Strong Load (capacitive load)	<b>≤50.000µF</b>
Turn-On delay after applying mains voltage	<b>1 sec. (max)</b>
Continuous Current at 24 V < 40°C (In)	<b>25 A</b>
Continuous Current at 24 V < 50°C (In)	<b>22 A</b>
Continuous Current at 24 V < 60°C (In)	<b>20 A</b>
Power Boost Current at 24 Vdc 60°C(In)	<b>In 60°C x 1.5 ≥ 3 min.</b>
Current max. Overload ≅ 4Vdc (permanent)	<b>I<sub>max</sub>=In60°Cx(1.8 -2.2)</b>
Maximum Short Circuit Current I <sub>cc</sub>	
Hiccup mode: Max 2 sec. Continuous Mode	<b>60 A</b>
Hold-up Time ( min. Vac) Vn In 40°C	<b>Typ. 20 msec</b>
Residual Ripple	<b>≤ 80 mV<sub>pp</sub></b>
Efficiency	<b>≥ 91 %</b>
Over temperature Protection	<b>Yes. Shut-down output and automatic restart.</b>
Short-circuit protection	<b>1° Manual Reset</b> <b>2° Hiccup Mode</b> <b>3° Continuous Out Mode</b>
Max Dissipation Power at Vn In 40°C	<b>54 W</b>
Over Load protection	<b>Yes</b>
Over Voltage Output protection	<b>Yes (typ. 35 Vdc)</b>
Parallel connection	<b>Yes “Easy Parallel”</b>
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	<b>-25 up to +70 °C</b> <b>(&gt;60°derating 2.5% °C)</b>
Ambient Temperature Storage	<b>-40 up to +85 °C</b>
Humidity at 25 °C, no condensation	<b>95 % to 25 °C</b>

## General Data

Isolation Voltage (In / Out)	<b>3000 Vac</b>
Isolation Voltage (In / PE)	<b>1605 Vac</b>
Isolation Voltage (Out / PE)	<b>500 Vac</b>
Protection Class (EN/IEC 60529)	<b>IP 20</b>
Reliability: MTBF IEC 61709	<b>&gt; 500.000 h</b>
Pollution Degree Environment	<b>2</b>
Connection Terminal Blocks Screw Type	<b>4 mm<sup>2</sup> (30-10 AWG)</b>
Protection class	<b>I with PE connected</b>
Dimension (w-h-d)	<b>85x120x140 mm</b>
Weight	<b>1.2 kg approx.</b>

## 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,

## Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

