

# FLEX9024B



Input: 230 - 400 - 500 Vac

Output: 24 Vdc 60 °C

Efficiency up to 91%

Strong overload without switch-off, up to 50%

Flexible Power continuity :from 96 to 120 W

“Power Good” Relay

Tree mode of output protections:

- 1) Hiccup mode
- 2) Fold Back
- 3) Restart after Main

DIN Rail Mountable

Extremely small size

3 Year warranty

## Input Data

Nominal Input Voltage (2 x Vac)	230 – 400 – 500 Vac
Manual select Input from 230 to 400-500	
Input Voltage range (Vac)	187 - 264 (230 ) 330 – 550 (400 - 500 )
Inrush Current (Vn and In Load) I <sup>2</sup> t	≤ 17 A ≤ 5 msec.
Frequency	47 – 63 Hz ±6%
Input Current (230 – 400 – 500 Vac)	1.0 - 0.5 – 0.4 A
Internal Fuse	T 4 A
External Fuse (recommended)	10 A (MCB curve B)

## 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
Turn-On delay after applying mains voltage	1 sec. (max)
Continuous Current at 24 V < 40°C (In)	5 A (permanent)
Continuous Current at 24 V < 50°C (In)	4,5 A (permanent)
Continuous Current at 24 V < 60°C (In)	4 A (permanent)
Power Boost Current at 24 Vdc 60°C(In)	In (60°C) x 1.5 ≥ 3 min.
Current max. Overload ≅ 4Vdc (permanent)	I <sub>max</sub> =In60°Cx(1.8 - 2.2)
Current Short Circuit I <sub>cc</sub>	
Max 2 sec.: Hiccup mode	12 A
Permanent : Continuous Mode	
Hold-up Time ( min. Vac) 24Vdc 5A	Typ. 20 msec
Residual Ripple	≤ 80 mV <sub>pp</sub>
Efficiency	≥ 91 %
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	1° Hiccup Mode 2° Fold Back 3° Restart After Main
Dissipation power load max (W)	11
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 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)	55x110x105 mm
Weight	0.50 kg approx.

## Norms and certifications

The CE mark in According to EMC 2004/108/EC and Low voltage directive 2006/95/EC.

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

## EMC Emission:

EN61000-6-4, EN61000-3-2

## Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines

