

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)	400 – 500
Input Voltage range (Vac)	330 – 550
Inrush Current (Vn and In 40°C)	≤ 35 A ≤ 5 msec.
Frequency	47 – 63 Hz
Input Current (400 – 500 Vac, In 40°C)	1.27 – 1.01 A
Internal Fuse	T 6.3 A
External Fuse (recommended)	16 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)	25 A
Continuous Current at 24 V < 50°C (In)	22 A
Continuous Current at 24 V < 60°C (In)	20 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	60 A
Hold-up Time (min. Vac) Vn In 40°C	Typ. 20 msec
Residual Ripple	≤ 80 mV _{pp}
Efficiency	≥ 91 %
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	1° Manual Reset 2° Hiccup Mode 3° Continuous Out Mode
Max Dissipation Power at Vn In 40°C	54 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	4 mm ² (30-10 AWG)
Protection class	I with PE connected
Dimension (w-h-d)	85x120x140 mm
Weight	1.2 kg approx.

Regulatory Compliance

- CE mark in conformity with EU Directives: EMC, LVD and RoHS.
- UKCA mark in conformity with UK S.I. 2016/1091, 2016/1101, 2012/3032.
- REACH Regulation 1907/2006.

Standards Conformity

- EN IEC 61010-2-201:2018 Safety requirements for electrical equipment for measurement, control and laboratory use.

Approvals

- UL508 Industrial Control Equipment for US & Canada (E308682).

EMC

- EMC Immunity EN 61000-6-2 for industrial environments: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11.
- EMC Emission EN 61000-6-4 for industrial environments (Class A).

