The FRENIC-EcoPAK is a packaged AC drive solution designed for variable torque fan and pump applications in commercial buildings, educational facilities, hospitals, and industrial facilities. Offering the most common specified features and options required by facility and consulting engineers, FRENIC-EcoPAK provides a compliant and competitive packaged drive solution. By applying Fuji Electric's FRENIC-EcoPAK to fans and pumps instead of mechanical flow control devices: lower energy bills, reduction in required maintenance, reduction in ambient noise, and improved process control can be achieved.

■ Product Features

- Multiple configurations offer flexibility
  - Basic bypass (3 contactor bypass for pump applications)
  - Bypass (3 contactor bypass for fan applications)
  - Non-bypass
- Integrated motor branch circuit protection, up to 100kA short circuit current rated packages
- Reactor options for reducing harmonics
- Soft-switching PWM drive output
- Catch-a-spinning motor functionality
- Enhanced automatic energy savings, reduces power consumption of both the motor and drive
- Simple construction leads to ease of maintenance
- LCD and LED keypad, also functions as a copy unit
- Quick-start programming menu for ease of start-up
- Power monitoring from the drive's keypad
- Run permissives
- Damper control and fireman's override for fan applications
- Built-in PID control with sleep function
- Communication protocols: Modbus RTU, Metasys N2, and APOGEE FLN are built-in the drive
- PC software for drive set-up and monitoring
- Additional communication protocols available: BACnet, LONWORKS, and Ethernet

	Non-Bypass	Basic Bypass	Bypass
Ratings			
Horsepower & Voltage	2 - 60Hp, 208/230V 2 - 200Hp, 460V	2 - 60Hp, 208/230V 2 - 200Hp, 460V	2 - 60Hp, 208/230V 2 - 200Hp, 460V
NEMA/UL Type 1 Enclosure	S	S	S
NEMA/UL Type 3R Enclosure	Consult Factory	Consult Factory	Consult Factory
NEMA 12 Ventilated Enclosure	O	O	O
Ambient Temperature	-10° to 40° C	-10° to 40° C	-10° to 40° C
Features			
Input Disconnect & Branch Circuit Protection	Standard Device or Fusible Disconnect	Standard Device or Fusible Disconnect	Standard Device or Fusible Disconnect
Electrically & Mechanically Interlocked Drive Output and Bypass Contactors	N/A	S	S
Drive Input Isolation	N/A	S	S
Motor Overload Relay	N/A	Class 20	Class 20
DC Link Reactor	Standard on ≥100Hp	Standard on ≥100Hp	Standard on ≥ 100Hp
3% AC Line Reactor	S (Optional ≥ 100Hp)	S (Optional ≥ 100Hp)	S (Optional ≥ 100Hp)
5% AC Line Reactor	O	O	O
Control Power Transformer w/ Fusing	S	S	S
Power On Indication	via Keypad	S	S
Drive Run Indication	via Keypad	via Keypad	via Keypad
Drive Fault Indication	via Keypad	via Keypad	via Keypad
Bypass Run Indication	N/A	S	S
Motor Overload Indication	via Keypad	S	S
Drive-Off-Bypass Selector Switch	N/A	S	S
Isolate-Normal Selector Switch	N/A	S	S
Safety Interlock Input	Programmable	S	S
Run Command Input	S	S	S
Enable Input	Programmable	Common w/ Safety Interlock	S
Fireman's Override Input	N/A	N/A	S
Analog Speed Reference Input	0-10VDC or 4-20mA	0-10VDC or 4-20mA	0-10VDC or 4-20mA
Damper Control Output	Programmable	N/A	S
Drive Run Status Output	S	S	S
Drive Fault Status Output	S	S	S
Bypass Run Status Output	N/A	S	S
Programmable Relay Outputs (Qty 2)	O	O	O
Analog Signal Output (Programmable Functionality)	0-10VDC or 4-20mA	0-10VDC or 4-20mA	0-10VDC or 4-20mA
Automatic Bypass	N/A	N/A	O
Customer Control I/O Terminal Strip	S	S	S
Communication Protocols			
Modbus RTU	S	S	S
Metasys® N2	S	S	S
APOGEE® FLN (P1)	S	S	S
LonWorks®	O	O	O
BACnet	O	O	O
Profibus DP	O	O	O
DeviceNet	O	O	O
Ethernet	O	O	O
Codes & Standards			
UL & cUL	S	S	S
Applicable NEMA & NFPA Standards	S	S	S

S = Provided As Standard
O = Optional

Please consult with your local Fuji Electric sales representative for additional ratings, features or communication protocols not listed above.

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LonWorks is a registered trademark of Echelon Corporation.
Metasys is a registered trademark of Johnson Controls, Inc.

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