

KEB

AC Elevator Drive



COMBIVERT F5

NEW Generation of Software

Stationary Pole Identification

- Detects the rotor position of PM gearless machines without movement of sheave
- No need to balance car or unrope machine
- Does not require running the car or uncoupling load

Motor Autotune

- Fully automatic procedure with no movement required to perform
- No need to run elevator to perform procedure
- No need to unrope machine or remove gear box

Inertia Learn Function

- Easily determines system inertia
- Results in pre-correction and less dependability to response from the encoder feedback for a smoother ride quality
- Provides better response to gear backlash

Synthetic Pre-torque Function

- Eliminates rollback without using external load weighing device
- Ideal for gearless applications



COMBIVERT F5 AC Elevator Drive

Hardware Features

- Sizes:
1HP-60HP, 230V 1HP-175HP+, 460V
- Same inverter used for induction & PM motors
- Smaller housing sizes reduce panel sizing
- Flexible encoder feedback:
TTL, Endat, Endat 2.2, BiSS, SSi Sin/Cos, Sin/Cos, Hiperface, UVW, HTL, Resolver
- Large die IGBTs offer extended lifetime

Functionality Features

- Elevator based units:
speed = fpm, acceleration = ft/sec²
- Speed Control Options:
Serial, Bi & Uni-Polar analog, PNP/NPN binary coded or five input discreet inputs, analog torque control
- High speed serial communication 10ms at 38.4 kbaud standard
- Free PC software for monitoring and programming

Installation Sites



**425 5th Ave.
Highrise Residential
Induction AC Gearless with Regen
Running at 700 ft/min**

Notable Jobsites

2200 Arch St. Philadelphia, PA
PM AC Gearless at 700 ft/min

Residential Condos

10 Barclay St. New York, NY
PM AC Gearless with
Regen at 1000 ft/min

Highrise Residential

18 W 84th St. New York, NY
PM AC Gearless with
Regen at 700 ft/min

Highrise Residential

Intrepid Sea-Air-Space Museum
Pier 86 New York, NY
PM AC Gearless

Museum

Regen Units

Line regen units in lieu of braking resistors provide building owners with a green solution that provides a return on investment by reducing the net power consumption.

- Standalone unit can be added on to a new or existing system
- Independent from drive and will not effect drive operation
- Dual 230V/460V rating makes unit flexible
- Can be used with all standard KEB drives as well as other drives
- Compact design allows units to be added to a current panel without needing a separate cabinet
- Monitor displays total kWh regen power returned to utility, total kWh power used from line and net kWh power



Elevator *DRIVE* Experience

- Entered the elevator industry in 1989
- Experience in market ranging from residential to high rise commercial
- Over 10+ years of experience with AC PM gearless elevator applications
- Currently working with over 20 elevator controller manufacturers in North America
- 3,300 elevator drives sold in North America and 12,000 elevator drives sold World Wide annually
- 350 Regen systems sold in North America annually
- Worldwide manufacturing in US, Europe and China
- Elevator application specific engineers available for support and development worldwide

The KEB logo consists of the letters 'KEB' in a bold, white, sans-serif font, set against a solid red rectangular background.

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