





'W-HOUSING' F5 HIGHLIGHTS

- 250 hp / 200 kW
- 400/480 VAC or DC input via a regen unit
- 332 A at 480V mains voltage
- 740 A peak
-  certification

'R-HOUSING' R6 HIGHLIGHTS

- 180 hp / 140 kW input rated power
- 180-528 VAC input
- 184 A UL rated current
- 331 A overload current
-  certification

HIGH RISE AND HIGH SPEED DRIVE AND REGEN SOLUTIONS

KEB has a reputation for excellent drive performance in high power elevator applications. The 'W-housing' F5 drive is the perfect solution for high rise and high speed elevator applications requiring large acceleration currents. KEB elevator drives are built to handle the most difficult elevator applications and provide superior ride quality.

R6 LINE REGEN SOLUTION

High rise and high speed elevator applications are great candidates for regenerative drives due to the large amount of power that is generated in certain situations (e.g. empty car up). The 'R-housing' R6 line regen unit can handle the increased currents that come with high acceleration and deceleration rates while regenerating energy back to the main line safely and efficiently.

SAFE TORQUE OFF (STO)

The F5 Elevator drive supports the Safe Torque Off (STO) safety function. When correctly applied, the F5 with STO meets ASME A17.1-2010 and EN81-1:1998+A3:2009 standards. Use of STO provides the following advantages:

- Eliminate the motor contactor
- Two separate methods of 'torque off'
- STO circuit SIL3 rating

 **SIL3** Safe Torque Off



FUNCTIONAL SAFETY FOR ELEVATORS

Functional Safety capability allows devices to shut down in a predetermined or 'safe' manner. This ensures no damage is done to the device or surrounding equipment. These safety functions are in accordance with IEC 61508-SIL3 and ISO 13849-PL e and handled by the drive platform, ensuring fast response time and cost savings when compared to traditional safety solutions.



Functional Safety solutions from KEB America have been 3rd party audited by Liftinstituut.



ESCALATOR TECHNOLOGY FROM KEB AMERICA

Variable frequency drives (VFDs) paired with line regenerative units are a great fit for escalator applications. Compared to line fed escalators, VFDs provide maximum application performance benefits such as smooth speed profile ramps, adjustable torque limits, and drive modes based on user traffic. A VFD will also reduce large inrush currents and power consumption due to power factor improvement. Compared

to braking resistors, a line regenerative unit can provide energy savings in overhauling (e.g. down) applications and provide a reduction in both heat generation and controller cabinet size. Another benefit of KEB drives for escalators is their compact size and integrated braking transistor. This allows the drive enclosure to fit into the tight spaces often found in escalator applications.

NOTABLE ESCALATOR INSTALLATIONS

Toronto Transit Commission



LA Metro



Newark Airport



Grand Central Station



HIGHLIGHTS

- Reduced energy consumption
- Reduced inrush currents to motor
- Smooth speed profile ramps
- Open loop, closed loop, and ASCL control modes.



ABOUT KEB AMERICA

New building trends are emerging which require new drive technology. More powerful drives, line regeneration, and low harmonic solutions are constantly in demand so building loads can operate trouble-free. KEB America, located in Shakopee, Minnesota, is your North American partner for elevator drives, regenerative units, harmonic filters, and more.

With KEB you can expect to find innovation that comes with more than two decades of experience in elevator applications. KEB has been a leader in drive technology for over 25 years.

With a worldwide installed base of over 150,000 units KEB is a trusted partner in elevator and escalator applications. Globally, KEB has four production sites and a service network spanning 30+ countries. Dedicated elevator and escalator application engineers are available to provide support and sales assistance.

Automation with Drive

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