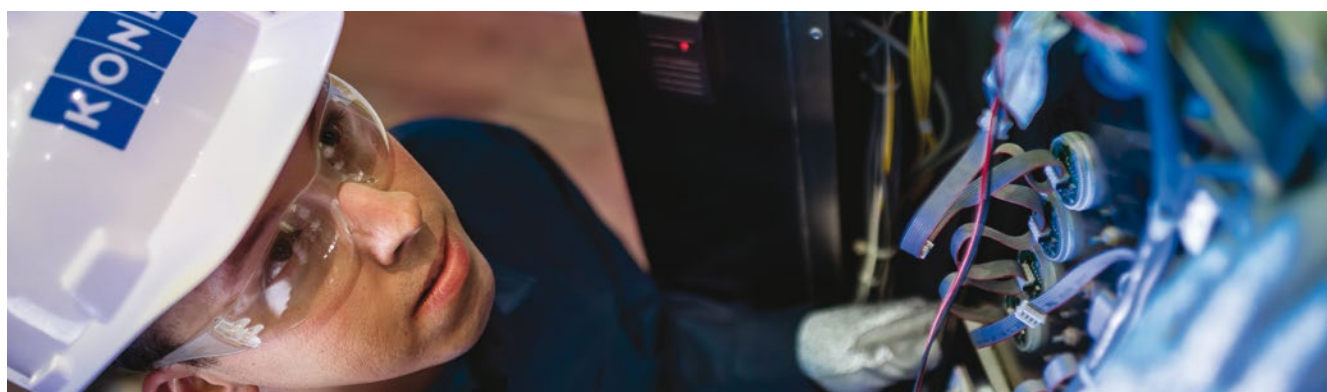


KONE ReSolve™ with Unity Drive

ELEVATOR CONTROL SYSTEM MODERNIZATION SOLUTION



KONE ReSolve with Unity Drive is a modernization solution for elevator electrification, designed specifically for buildings with existing DC gearless elevators.

This solution replaces outdated technology such as relays and older electronic systems, improving an elevator's performance, reliability, safety and energy efficiency. Energy consumption is reduced with low harmonic distortion and a near-unity power factor capability. Full line regeneration of energy provides a high-performance elevator solution with a significantly lower level of energy consumption. The modular structure of KONE ReSolve with Unity Drive is designed to correctly interface with many types of existing elevator components, ensuring swift, trouble-free installation.

For existing buildings over forty years old, KONE ReSolve with Unity Drive provides a much-needed performance and efficiency improvement.

Key benefits

Eco-efficient

- Low energy consumption
- High power factor, near 1.0
- Minimal harmonic distortion
- Full recovery of regenerated energy

Safe and convenient

- Minimized building disturbance with fast installation
- Safety assured, compliance with latest local, state and elevator codes
- Accurate stopping at floor level ensured by closed-loop drive control

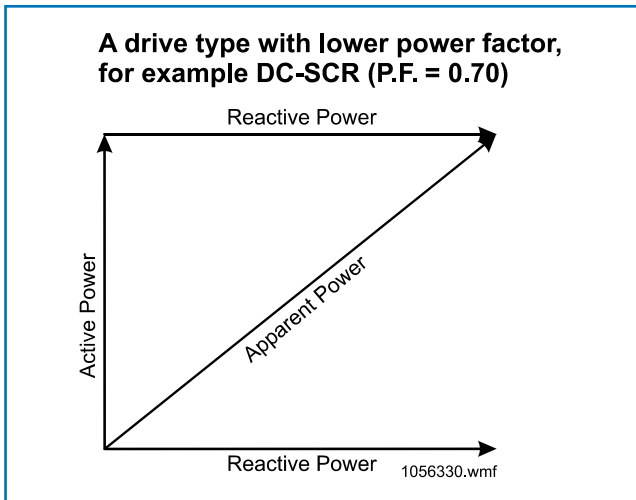
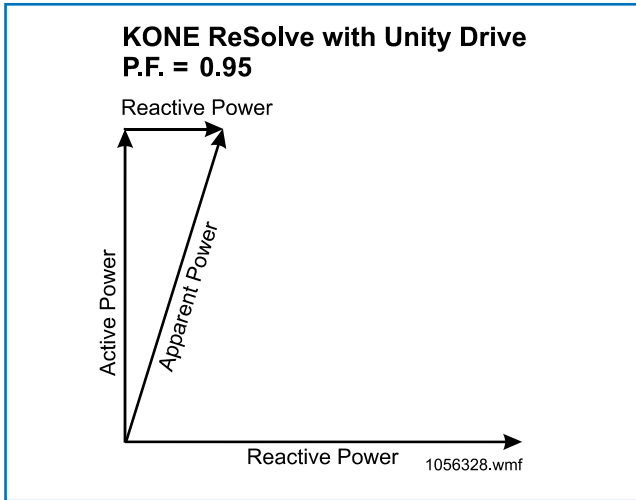
Reliable

- Comfortable and efficient travel for passengers
- Optimum reliability achieved with the latest control technology

Versatile

- Available for both passenger and freight applications

KONE ReSolve™ with Unity Drive	
Total harmonics distortion %	<5 (125 A) <8 (200 A, 250 A)
Power factor	>0.95
Speed	up to 1400 fpm
Max travel	820 ft
Max floors	63
Max elevators in group	8
Leveling accuracy	+/- 1/8 inch
Typical lifetime of electrical components	25 years



Energy efficiency

KONE ReSolve with Unity Drive reduces energy consumption by 40% compared with Motor Generator (MG) sets and by 25% compared with DC-SCR (6 pulse) drives.

Full line regeneration provides a high-performance elevator solution with significantly lower energy consumption. The line regeneration feature enables the elevators to regenerate almost as much power when they descend as they consume when they ascend. This regenerative feature saves considerable energy (up to 50%), substantially cutting the building owner's operating costs and reducing the environmental footprint.

High power factor

The high power factor (P.F. >0.95) minimizes the consumed power supply kVA compared to lifting power. A high power factor minimizes the stress on the building's electrical supply system. This makes it possible to use smaller fuses and eliminates the need to upgrade the building supply cables to the elevators as part of the modernization.

Low harmonics distortion

Low harmonics distortion is built into the drive, eliminating the need for additional filtering solutions. The low harmonics distortion (THDI < 8%) eliminates interference with other electrical equipment, and reduces the stress on the building's electrical system. The harmonics level meets the requirement of IEEE 519 at the drive terminals.

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SF2890 Rev 0415
Printed in U.S.A.



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