527 ACPM
Elevator Traction Machines Package

Imperial Electric 527 direct drive elevator machines are designed to replace AC geared or gearless machines in 1:1 roped applications. 527 series machines deliver all the advantages of ACPM*, synchronous technology in a package engineered to provide everything you need to replace an existing geared or gearless machine in the shortest possible time —

AC Permanent Magnet machines

- Universal machine base for right- or left-hand installation
- Machine includes:
  - AC Permanent Magnet motor
  - Drive sheave
  - Independent brake system (see note)
  - Encoder

Dual Brakes up to

A. 1:1 45% up to 3,500 pounds
B. 1:1 50% cw up to 4,000 pounds
C. 2:1 50% cw up to 7,500 pounds

Second brake (probably rope brake) required for ratings above these up to 1:1-4,500 lbs. and up to 2:1-8,000 lbs.

GEARED TRACTION 1:1 REPLACEMENT

Specifications

- 4,500 pound capacity, 1:1 roped. 8,000 pound capacity, 2:1 roped.
- Speeds ranging from 100 to 700 FPM
- V-groove, 25-inch diameter sheave
- Up to 6 grooves for 5/8” rope, up to 7 grooves for 1/2” rope

Features

- Precise acceleration, deceleration, and contract speed control
- Low noise, highly efficient
- Compact and Green - no oil lubricants
- Low speed direct drive (no gears)
- Cooler operation
- Independent brake system holds 125% rated capacity — (see chart) alternate methods required to meet A17 2.19.1-2
- Complete hardware package eliminates on-site engineering calculation and fabrication of heavy base and beam structures
- Simplified logistics – complete package engineered and provided by Imperial Electric
- Weighs just under 4000 pounds
- CSA listed CUS recognized

Applications

- New construction and primarily Modernization for hospitals or larger capacity
- 1:1 and 2:1 roped installations

*AC Permanent Magnet (synchronous / direct drive)
Dimensions (Representative)

Rope brake required over ratings above:
1:1 45% cw 700 FPM 3,500 lbs.
1:1 50% cw 700 FPM 4,000 lbs.
2:1 50% cw 700 FPM 7,500 lbs.

N.N inches (N.N mm) Rope drop varies per job

527 Specifications

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Consult Imperial for other ratings.

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