

# ELEVATOR MOTORS

## From Reuland Electric

### VVVF Motors for Modernization

#### Flange Mounted Motors

- ✓ "Drop In" replacements for DC motors
- ✓ No adapters required
- ✓ No alignment problems
- ✓ Designs complete and quick delivery for:
  - Dover • Northern
  - Titan • Armor
  - Otis • Westinghouse and more...



### VVVF Motors for New Construction

#### Foot Mounted Motors

- ✓ Quiet, reliable & built to last

*Reuland Electric motors are CSA approved, and are approved by the New York City Housing Authority.*

For more information visit our website at [www.reuland.com](http://www.reuland.com), or contact your local representative.



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# VVVF Elevator Hoist Motors

## Typical 1200 RPM\* Motor Performance Data 40°C Ambient • 1.0 Service Factor

HP	Full Load	Frame	Model	AMPS		Torques (lb. ft.)			Efficiency	Inertia (lb. ft. <sup>2</sup> )
	R.P.M.			N.L.	F.L.	F.L.T	L.R.T.	B.D.T.	% F.L.	
7.5	1168	254T	70103	6.3	10.8	34.0	52.0	110.0	88.1	1.10
10	1162	256T	70105	8.1	14.3	45.3	70.0	151.0	86.9	1.40
15	1175	284T	70107	9.3	19.3	67.0	128.0	214.0	92.0	4.70
20	1174	286T	70109	12.9	25.5	90.0	187.0	296.0	92.0	5.50
25	1173	324T	70111	14.8	32.1	112.0	227.0	323.0	92.5	8.40
30	1175	326T	70113	18.1	37.6	134.0	270.0	443.0	93.5	10.80
40	1156	364T	70115	13.8	46.5	182.0	262.0	580.0	90.4	18.20
50	1173	365T	70117	16.1	56.4	224.0	340.0	650.0	92.4	20.80

Note: All data at 460V, 3 phase, 60Hz, utility power.

**\*720, 900 and 1800 RPM also available.**

### Features

**Lamination**—Custom laminations designed specifically for variable frequency applications to provide optimum performance and minimal harmonics.

**Copper Conductors**—200°C moisture-resistant magnet wire for additional quality and integrity.

**Thermal Protector**—Normally closed thermal protector placed on the windings. Protector opens when winding reaches 150°C (Class H temperature), providing early warning detection circuit to improve safety and reliability of entire system.

**Insulation System**—High-temperature Class H insulation to insure improved reliability. Designed specifically for high-frequency distortion up to 15 KHz.

### Modifications/Options Available

- Flanged end bells for:
  - Armor
  - Dover
  - Other Flanges also available
- Northern
- Otis
- Titan
- Westinghouse
- Conduit Box, Special
- Insulation, Super H & VPI
- Paint, Special
- Single bearing construction
- ODP and T.E. Enclosures

### Electrical Specifications

Voltage	200 to 600 VAC available
Frequency	Variable frequency: 5 to 120 Hz
Insulation	Class H
Magnet Wire	200°C moisture-resistant magnet wire
Varnish	Multiple dips and bakes, 100% solids polyester varnish
Phase Insulation	NOMEX, full Class H
Thermal Protector	Normally closed thermal protector embedded in windings
Lead Wire	Class H rated
Slip	<3% on all designs
Encoder	Shaft mount, 1024 PPR, 5–30 volts

### Mechanical Specifications

Frame	Cast aluminum
Endbell	Cast aluminum with steel bearing journal
Conduit Box	Diagonally Split, 360° rotatable in 90° increments; fully gasketed
Ground Screw	Inside terminal box for convenience
Drain Plugs	Automatic drain and breather plugs to prevent moisture build up
Shaft Material	High-strength alloy steel
Endplay	Minimum 3/16"

**Note:** For horsepower, speeds and modifications/options not shown, contact Reuland Electric representative.



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*Electric Motors and Related Products*

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