



AC Traction Elevator Hoist Motor

Polyphase squirrel cage induction motor designed for use with VVVF drives, low slip (2% Nominal) with high breakdown torque (250% Minimum), or high slip (10% Nominal) with high starting torque (275% Minimum).

Mechanical construction with cast iron frame & brackets, hot rolled steel shaft, regreaseable ball bearings, open drip-proof, totally enclosed fan cooled, or totally enclosed non-ventilated enclosures.

If required, motor shall be supplied with motor mounted shaft driven optical encoder rated at 1,024 pulses per revolution.

Insulation system shall be standard class B or optional class F with stator winding of copper insulated magnet wire. Insulation processing shall include minimum of 2 dips and bakes of polyester varnish.

Duty for VVVF applications shall be 60 minute for low slip and 30 minute for high slip designs at name plate rating. Motor temperature rise in a 40°C maximum room ambient at nameplate rating shall be:

Open Drip-Proof	60°C by resistance
Totally Enclosed Fan Cooled	60°C by resistance
Totally Enclosed Non-Ventilated	65°C by resistance

Laminations to be fully processed core plated electrical grade steel of suitable gage.

Rotor shall be of die cast aluminum construction.

Motors shall comply with all applicable NEMA standards per publication MG-1 latest edition and revisions. Motors shall be CSA listed and have appropriate CSA marking on the motor nameplate.

For other mechanical and electrical configurations, consult factory.

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AC VVVF Elevator Hoist Motor 1200 RPM Standard Amp Ratings

Low Slip, Single Speed, Ball Bearings, Elevator End Play, 50°C Rise, 1200RPM, 60 Minute Duty, Open Construction

HP	5	7.5	10	12.5	15	20	25	30	40	50	60	75
Frame	256T	256T	256T	284T	284T	286T	324T	326T	365T	365T	405T	405T
200 V	15.4	24.5	30.8	34.1	43.8	58.3	70.0	80.4	113.0	132.2	152.0	189.0
208 V	14.8	23.5	29.6	32.7	41.9	55.2	67.0	78.4	108.0	129.3	147.0	182.0
220 V	14.2	21.5	26.6	30.9	39.3	52.4	65.8	72.5	104.0	122.0	139.0	172.0
230 V	13.5	21.6	26.4	29.5	39.0	49.8	61.0	70.4	98.2	116.2	132.2	164.0
240 V	13.6	20.4	26.5	28.9	36.0	47.6	58.6	68.6	95.4	114.2	127.0	156.8
440 V	7.1	10.8	13.3	15.6	19.7	26.2	32.9	36.7	52.0	61.0	69.3	86.0
460 V	6.8	10.8	13.2	14.8	19.5	24.9	30.5	35.2	49.1	58.1	66.1	82.0
480 V	6.4	10.2	13.3	14.2	18.0	23.8	29.3	34.3	47.7	57.1	63.5	78.4
575 V	5.4	8.5	10.5	11.9	15.2	20.1	24.8	28.4	38.6	46.5	53.0	65.5
Efficiency	87.1%	86.9%	88.0%	88.9%	89.0%	89.7%	89.5%	90.8%	90.0%	90.4%	91.4%	91.1%
P/F	79.8%	75.8%	72.4%	88.8%	83.1%	82.6%	85.9%	87.9%	85.1%	88.6%	92.7%	94.2%
BTU/HR	566	864	1,042	1,192	1,416	1,754	2,240	2,322	3,395	4,056	4,312	5,596

Bold Numbers are Calculated

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