SNOWMASTER™ Vertical Solid Shaft Inverter Duty Motors

Premium Efficient Vertical Motors



Product Specifications

Horsepower: 125-600 HP

Poles: 2 (3600 RPM)

Rated Voltage: 460, 575, 2300 and

4000V 60Hz

Frame Size: 404VP-5012VPH

Enclosure: Weather Protected I (WPI)

Efficiency Level: NEMA Premium®†

Efficient, Inverter Duty

Product Overview and Options

Nidec Motor Corporation's SNOWMASTER™ vertical motor is a solid shaft high thrust capable "P" base motor, contained in a Weather Protected Type I enclosure. The SNOWMASTER™ motor is specifically designed to withstand the rigors of snowmaking applications.

This specially designed motor utilizes a proven vacuum pressure impregnation INSULIFE®† winding treatment that was designed with multiple coatings of Class F insulation materials to minimize moisture problems during idle periods.

Nidec's unique Microflow Oil system provides proper lubrication without oil churning and optimum thrust bearing protection via an oil bath arrangement.

Product Overview and Options

- Class H INVERTER GRADE® Insulation (INSULIFE™ 2000 on 400-440 frame and (INSULIFE™ VPI epoxy on 5000)
- NEMA Premium Efficient®†
- Rated for 30°C ambient, 10,000 feet Altitude (Water cooling not required)
- · Class B rise at full load (sine wave power)
- 1.15 Service Factor that supports momentary overloading
- Inverter duty per NEMA®† MG-1 Part 31 at 1.0 S.F.
- · Cast iron frame and brackets
- · Special corrosion-resistant paint
- Refined balance of 0.10 inches per second (peak-to-peak) for smooth operation and extended pump seal life

- · Thrust capacities up to 12,250 lbs.
- Special balance
- 115-volt space heater protects the motor winding from condensation during idle periods.
- · Separate accessory outlet box
- Normally closed thermostats (1/Phase)
- · Shaft grounding ring
- Upper insulated bearing
- LUBRIPORT® oil sight level window



Every feature you need for your snowmaking pumps is built right into the SNOWMASTER™



460 Volts

HP	Down Thrust (lbs)(#)	Frame	BD (in)	List	Туре	Disc. Sym.
125	5200	404VP	16.5	\$17,792	RVI-4	7VM
150	5200	405VP	16.5	\$24,644	RVI-4	7VM
200	7000	444VP	16.5	\$32,540	RVI-4	7VM
250	7000	445VPA	20	\$38,308	RVI-4	7VM
300	7000	5008PH	20	\$61,212	RVEI-4	MV8
350	7000	5008PH	20	\$79,621	RVEI-4	MV8
400	7000	5008PH	20	\$95,157	RVEI-4	MV8
450	7000	5012PH	20	\$99,172	RVEI-4	8VM
500	7000	5012PH	20	\$103,171	RVEI-4	MV8
600	7000	5012PH	20	\$123,807	RVEI-4	8VM

2300 Volts

HP	Down Thrust (lbs)(#)	Frame	BD (in)	List	Туре	Disc. Sym.
150	7000	5008PH	20	\$53,363	RVEI-4	8VM
200	7000	5008PH	20	\$55,037	RVEI-4	MV8
250	7000	5008PH	20	\$65,717	RVEI-4	MV8
300	7000	5008PH	20	\$75,284	RVEI-4	MV8
350	7000	5008PH	20	\$84,851	RVEI-4	8VM
400	7000	5012PH	20	\$93,999	RVEI-4	8VM
450	7000	5012PH	20	\$103,986	RVEI-4	MV8
500	7000	5012P	24.5	\$113,551	RVEI-4	8VM
600	7000	5012P	24.5	\$140,822	RVEI-4	8VM

4000 Volts

HP	Down Thrust (lbs)(#)	Frame	BD (in)	List	Туре	Disc. Sym.
150	7000	5008PH	20	\$60,727	RVEI-4	8VM
200	7000	5008PH	20	\$62,631	RVEI-4	8VM
250	7000	5008PH	20	\$74,795	RVEI-4	8VM
300	7000	5008PH	20	\$85,678	RVEI-4	8VM
350	7000	5008PH	20	\$96,563	RVEI-4	8VM
400	7000	5012PH	20	\$106,971	RVEI-4	8VM
450	7000	5012PH	20	\$118,333	RVEI-4	8VM
500	7000	5012P	24.5	\$129,220	RVEI-4	8VM
600	7000	5012P	24.5	\$158,569	RVEI-4	8VM

Momentary Upthrust Capacity is 30% of Standard High Thrust Design

For additional information, please refer to our Modified Vertical Motors Catalog (PB500) or contact your Nidec Motor Corporation representative

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