REULAND®

ELECTRIC MOTOR COMPANY

INVERTER/VECTOR DUTY MOTORS

Technical Specifications Data Sheet

MADE IN THE USA

REULAND
ELECTRIC MOTOR COMPANY

INVERTER/VECTOR DUTY MOTOR

POWER WHEN YOU NEED IT MOST

PREMIUM WIRE & INSULATION: For Lasting Protection

- Inverter-rated magnetic wire resists breakdown from voltage spikes.
- Double-dip varnish and corona-resistant coatings prevent insulation damage.
- Hand-wound windings reduce stress points for longer motor life.

LOW IMPEDANCE DESIGN: For Cooler, More Efficient Operation

- Delivers full performance from zero to top speed.
- Reduces heat generation and power loss for extended lifespan.
- Balanced windings stabilize magnetic fields, reducing vibration and noise.

BEARINGS & SHAFTS: With Strength You Can Depend On

- Larger, permanently lubricated bearings handle higher loads and speeds.
- Oversized, high-tensile steel shafts resist deflection and wear.
- Balanced to exceed NEMA vibration standards for smoother, quieter operation.

CUSTOM MOTORS

Customize endbells, shafts, electrical designs, mounting configurations, and more to match the unique demands of your application. With full in-house engineering, machining, and manufacturing capabilities, we control every step of the process to ensure quality and performance.

Discuss your project with us to learn more.

DIALECTRIC STRENGTH

12.3 kV | 5.7kV

2x the dielectric protection

of the NEMA minimum of 5.7 kV

WIRE LIFE EXPECTANCY

20,000 hours @ 201°C

SHAFT STRENGTH

25% stronger

Using C1136 steel,
tensile strength 105,000 PSI

VIBRATION LEVEL

50% less vibration

VARIABLE FREQUENCY (VFD)

TENV & Blower-Cooled Designs - Constant Torque

208-600VAC, 3-Phase / 60-Hertz, Class H Insulation, 1.00 SF, 40 °C Ambient, [3] N/C Thermostat in Winding – [1] Per Phase.

All ratings suitable for full torque at zero speed ratings are continuous duty for 3 to 120 hertz operation only.

Operations below 3-hertz requires A-TEFC (blower-cooled).

Footed or footless ribbed construction, with standard endbell or standard NEMA C-face mounting on motor output [drive end] No charge.

** NOTE: All full load amps [FLA] values shown are typical, subject to change without notice.

◆ Change 9th position part number from 'F' to 'H' for Footed C-Face or from "F" to "C" for Footless C-Face construction - specify at quotation and/or order entry.

For all special modifications, consult Reuland prior to quotation.

OPTIONS AVAILABLE

Optional Cooling Fans: Large capacity blowers for superior cooling in demanding applications.

Encoder Mountings: Shaft mounted encoders eliminates couplings and better alignment.

HP	RPM	FULL LOAD RPM	VOLTS	NEMA FRAME	460V FLA TYPICAL VALUES **	BASIC PART NUMBER ◆
1	1800	1731	230/460	143T	1.6	SIC0014NFAS
	1200	1130	230/460	145T	1.9	SIC0016NFAS
1.5	1800	1733	230/460	145T	2.4	SICY154NFAS
	1200	1162	230/460	184T	2.6	SICY156NFAS
2	1800	1740	230/460	182T	3	SIC0024NFAS
	1200	1148	230/460	213T	3.2	SIA0026NFAS
3	1800	1751	230/460	184T	3.9	SIC0034NFAS
	1200	1142	230/460	215T	4.8	SIA0036NFAS
5	1800	1752	230/460	213T	5.9	SIA0054NFAS
	1200	1166	230/460	254T	7.3	SIA0056NFAS
7.5	1800	1760	230/460	254T	9.2	SIAY754NFAS
	1200	1167	230/460	256T	10.5	SIAY756NFAS
10	1800	1751	230/460	254T	12.4	SIA0104NFAS
	1200	1162	230/460	256T	18.7	SIA0106NFAS
15	1800	1751	230/460	254T	18.9	SIA0154NFAS
	1200	1175	230/460	286T	21	SIA0156NFAS
20	1800	1750	230/460	284T	25.7	SIA0204NFAS
	1200	1170	230/460	326T	26.6	SIA0206NFAS
25	1800	1765	230/460	326T	28.4	SIA0254NFAS
	1200	1174	230/460	364T	29	SIA0256NFAS
30	1800	1767	230/460	364T	34	SIA0304NFAS
	1200	1175	230/460	365T	36	SIA0306NFAS
40	1800	1770	230/460	365T	43.8	SIA0404NFAS
	1200	1179	230/460	405T	45.8	SIC0406NFAS
50	1800	1770	230/460	365T	56	SIA0504NFAS
	1200	1186	230/460	445T	58	SIC0506NFAS
60	1800	1780	230/460	444T	70	SIC0604NFAS
	1200	1190	230/460	445T	72.5	SIC0606NFAS
75	1800	1781	230/460	445T	83	SIC0754NFAS
	1200	1189	230/460	445T	85.5	SIC0756NFAS
100	1800	1784	230/460	445T	112.5	SIC1004NFAS
	1200	1190	230/460	449T	126.5	SIC1006NFAS
125	1800	1784	230/460	449T	144	SIC1254NFAS
	1200	1190	230/460	449T	150	SIC1256NFAS
BLOWER COOLED						
150	1800	1782	230/460	449T	172	SVC1504AFAB
	1200	1189	230/460	449T	182	SVC1506AFAB
200	1800	1780	230/460	449T	225	SVC2004AFAB
	1200	1189	230/460	449T	235	SVC2006AFAB
250	1800	1783	230/460	449T	276	SVC2504AFAB
	1200	1189	230/460	449T	283	SVC2506AFAB
300	1800	1781	230/460	449T	325	SVC3004AFAB
	1200	1189	230/460	449T	380	SVC3006AFAB

PROUDLY MADE IN THE USA

SHIPPED GLOBALLY

REULAND®
ELECTRIC MOTOR COMPANY

Your electric motor experts. Contact us today.

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