HIGH PERFORMANCE MOTORS
GEAR MOTORS

NORD DRIVESYSTEMS

60 HERTZ LINE FREQUENCY - SF 1:15

230V - 3 phase : 0.16 to 40 hp
460V - 3 phase : 0.16 to 250 hp
575V - 3 phase : 0.16 to 250 hp

OPTIONS

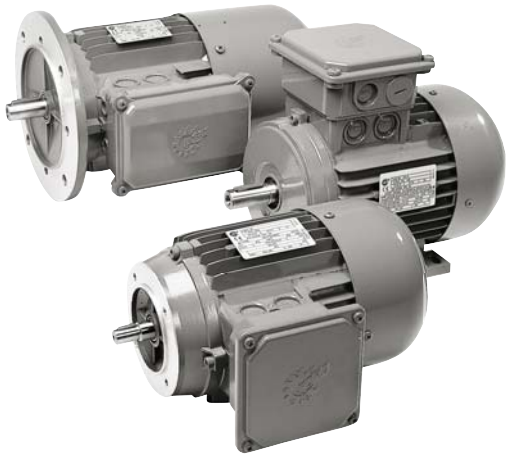
115/230V - 1 phase : 0.16 to 2 hp
208V - 3 phase : 0.16 to 10 hp

50 HERTZ LINE FREQUENCY

230/400V - 3 phase : 0.12 to 2.2 kW
400/690V - 3 phase : 3 to 200 kW

OPTIONS

230V - 1 phase : 0.09 to 1.5 kW



Motor Power		Full Load Speed	Integral Model Number	Mounting Options					Full Load Current			Starting Torque	Break-down Torque
				NEMA T-Frame	NEMA C-Face	IEC Footed B3 Style	IEC Flanged B3 Style	IEC Flanged B14 Style	230V	460V	575V		
[hp]	[kW]	[rpm]							[A]	[A]	[A]	[%]	[%]
0.16	0.12	1700	63S/4	56T	56C	63S-B3	63S-B5	63S-B14	0.88	0.44	0.37	210	220
0.25	0.18	1680	63L/4	56T	56C	63L-B3	63L-B5	63L-B14	1.12	0.56	0.46	210	220
0.33	0.25	1710	71S/4	56T	56C	71S-B3	71S-B5	71S-B14	1.56	0.78	0.66	250	240
0.50	0.37	1720	71L/4	56T	56C	71L-B3	71L-B5	71L-B14	1.90	0.95	0.80	245	260
0.75	0.55	1710	80S/4	56T	56C	80S-B3	80S-B5	80S-B14	2.70	1.35	1.12	220	220
1	0.75	1650	80L/4	56T	56C	80L-B3	80L-B5	80L-B14	3.66	1.83	1.46	220	230
1.5	1.1	1660	90S/4	56T, 143T	56C, 143TC	90S-B3	90S-B5	90S-B14	4.84	2.42	1.94	270	260
2	1.5	1660	90L/4	145T	145TC	90L-B3	90L-B5	90L-B14	6.34	3.17	2.54	255	250
3	2.2	1705	100L/4	182T	182TC	100L-B3	100L-B5	100L-B14	9.00	4.50	3.60	230	260
5	3.7	1725	100L/40	184T	184TC	100La-B3	100La-B5	100La-B14	15.2	7.62	6.10	270	310
7.5	5.5	1735	132S/4	213T	213TC	132S-B3	132S-B5	132S-B14	19.8	9.90	7.92	245	275
10	7.5	1735	132M/4	215T	215TC	132M-B3	132M-B5	132M-B14	26	12.9	10.3	290	320
15	11	1770	160M/4	254T	254TC	160M-B3	160M-B5	-	38	19.2	-	245	300
20	15	1765	160L/4	256TC	256TC	160L-B3	160L-B5	-	49	25	-	290	330
25	18.5	1750	180MX/4	-	-	-	-	-	60	30	-	295	340
30	22	1755	180LX/4	-	-	-	-	-	71	36	-	340	370
40	30	1780	200L/4	-	-	-	-	-	96	48	-	290	260
50	37	1765	225S/4	-	-	-	-	-	-	58	-	310	350
60	45	1770	225M/4	-	-	-	-	-	-	70	-	310	260
75	55	1782	250M/4	-	-	-	-	-	-	89	-	280	320
100	75	1788	280S/4	-	-	-	-	-	-	118	-	290	350
125	90	1786	280M/4	-	-	-	-	-	-	144	-	280	330
150	110	1788	315S/4	-	-	-	-	-	-	176	-	280	310
175	132	1790	315M/4	-	-	-	-	-	-	200	-	300	340
200	150	1790	315Ma/4	-	-	-	-	-	-	230	-	320	360
250	187	1790	315L/4	-	-	-	-	-	-	280	-	320	330

HIGH PERFORMANCE MOTORS

INVERTER DUTY

- Motors conform with NEMA MG-1-2006 Section 31.4.4.2
- Speed range 5:1 constant torque from 60Hz to 12Hz
- Speed range 20:1 constant torque from 80Hz to 4Hz

INVERTER DUTY OPTIONS

- 10:1 Speed range: constant torque from 60Hz to 6Hz
- 1000:1 Speed range: constant torque from 60Hz to 0Hz
- Blower cooling fans
- Incremental encoder
- Class H magnet wire insulation

INTERNATIONAL CERTIFICATIONS

- Underwriters Laboratories Recognized component :
- Canadian Standards Association approved for most installations in Canada :
- CSA approved according to both US and Canadian standards :
- European Union (EU) member states approved according to Low Voltage Directive : CE

MOUNTING STYLES

- Integral motor with speed reducer
- NEMA C-face flange
- DIN B5, IEC FF metric face flange mount
- DIN B14, IEC metric face flange mount
- DIN B3, IEC metric foot mount

ENVIRONMENTAL PROTECTION

- IP55 enclosure protection
- Totally Enclosed Fan Cooled (TEFC)
- Tropical protection

ENVIRONMENTAL OPTIONS

NSD+ severe duty protection, Encapsulated windings for IEEE45 Marine Duty, IP66 enclosure, End bell drain holes, Drip cover (RD), Wind protected double drip cover (RDD), Space heater (SH), Additional epoxy coating on inside surface of motor

MULTIPLE SPEED OPTIONS

- 1800/3600 rpm - 4 pole and 2 pole windings
- 900/3600 rpm - 8 pole and 2 pole windings

STANDARD CONSTRUCTION FEATURES

- Corrosion resistant aluminum alloy housing
- Double coated magnet wire insulation
- Insulation lined slots
- First turn winding protection
- Varnish dipped stator
- Shaft lip seals both end bells
- Inorganic insulation for tropical protection
- Sealed stator to end bell connections
- Cast metal terminal box
- Gasket sealed terminal box
- Non sparking low inertia fan
- Dynamically balanced rotor
- Anti-corrosion coated rotor
- Bearing grease resists water
- Terminal block power connector
- Reversible rotation direction
- Four conduit box locations
- Four cable entry locations
- Threaded cable entry

THERMAL WINDING PROTECTION OPTIONS

- Thermostat sensor (TW)
- Thermistor sensors (TF)

POWER OFF BRAKE

- Ready to go…wired by factory
- Manual hand release lever included
- Downward adjustable torque is included, specification is required
- AC to DC voltage rectifier is included
- IP55 enclosure protection is included

POWER OFF BRAKE OPTIONS

NSD+ severe duty protection, Corrosion protection (RG), Dust protection (SR), Lockable hand release lever (FHL), Oversize brake, Undersize brake, Inverter duty modifications, Faster torque release enhancement, Faster torque stopping enhancement, Current sensing relay for automatic control(IR) Heating circuit (BSH), Micro switch wear indicator, IP 66 enclosure

OTHER OPTIONS

- Over-running clutch (FK)
- Anti-rotation backstop (RLS)
- Extended motor shaft beyond fan cover (WE)
- High inertia metal fan for soft start (Z)
- Quick power disconnect plug (MS1)

DRIVESYSTEMS

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