

PREMIUM EFFICIENCY IE3 HIGH PERFORMANCE MOTORS



- Full range from 0.12-55 kW available
- Lower operating costs thanks to high efficiency
- Simple and highly flexible combination through full compatibility with the NORD modular system



Type	IE	PN	nN	MN	IN			η			MA/MN	MK/MN
					230V	400V	690V	1/2xPN	3/4xPN	4/4xPN		
		[kW]	[rpm]	[Nm]	[A]	[A]	[A]	[%]	[%]	[%]		
NEW 63SP/4	IE3	0.12	1370	0.83	0.68	0.39	0.23	58.3	64.7	66.4	2.80	2.60
NEW 63LP/4	IE3	0.18	1385	1.25	1.02	0.59	0.34	62.2	65.6	69.9	3.20	3.10
NEW 71SP/4	IE3	0.25	1415	1.70	1.21	0.70	0.40	68.2	73.0	74.3	3.20	3.20
NEW 71LP/4	IE3	0.37	1405	2.49	1.58	0.91	0.57	72.8	76.7	77.3	2.80	2.80
NEW 80SP/4	IE3	0.55	1420	3.67	2.23	1.29	0.74	79.5	81.8	81.4	2.70	2.80
80LP/4	IE3	0.75	1415	5.06	3.10	1.79	1.03	83.7	84.7	83.7	3.00	3.10
90SP/4	IE3	1.10	1430	7.33	4.12	2.38	1.37	84.7	86.0	85.3	3.60	4.00
90LP/4	IE3	1.50	1415	10.10	5.59	3.23	1.86	86.6	86.3	85.3	3.30	3.50
100LP/4	IE3	2.20	1465	14.30	7.40	4.27	2.47	88.7	89.6	88.1	2.60	3.90
100AP/4	IE3	3.00	1460	19.70	10.50	6.05	3.49	88.4	88.8	88.1	2.40	3.60
112MP/4	IE3	4.00	1440	26.50	13.50	7.82	4.51	88.9	89.2	88.6	3.40	3.60
132SP/4	IE3	5.50	1465	36.80	18.90	10.90	6.29	90.6	91.5	90.9	3.70	4.00
132MP/4	IE3	7.50	1460	49.10	26.00	15.00	8.66	90.9	91.5	90.9	3.90	4.20
160SP/4	IE3	9.20	1470	59.76	29.00	16.70	9.65	90.4	91.1	91.0	2.86	3.35
160MP/4	IE3	11.00	1465	71.80	35.50	20.50	11.80	91.6	92.0	91.4	2.90	3.40
160LP/4	IE3	15.00	1465	98.00	48.30	27.90	16.10	92.3	92.8	92.3	3.80	4.30
180MP/4	IE3	18.50	1480	119.00	58.90	34.00	19.60	92.4	93.1	93.1	2.90	3.40
180LP/4	IE3	22.00	1475	143.00	68.10	39.30	22.70	93.2	93.5	93.1	2.80	3.20
225RP/4	IE3	30.00	1485	193.00	97.30	56.20		93.6	94.3	94.1	2.96	3.42
225SP/4	IE3	37.00	1485	238.00	118.00	68.20		93.6	94.4	94.1	2.89	3.24
225MP/4	IE3	45.00	1485	289.00	142.00	81.70		94.6	94.9	94.6	2.99	3.36
250WP/4	IE3	55.00	1480	355.00	166.00	96.10		95.2	95.0	94.6	2.56	2.82



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Mounting styles

- IEC B3 metric foot mount
- IEC B14 metric face flange mount
- IEC B5 metric flange mount
- NEMA C-face flange mount
- NEMA foot mount
- Integral motor for NORD gear units

International Certifications

- CE mark in accordance with the Low Voltage Directive for European Union (EU)
- Underwriters Laboratories Recognized per UL standard 1004
- Canadian Standards Association CSA mark
- China Compulsory Certification
- Eurasian Conformity

International Certifications

- EU: IE1 – IE4 according to IEC 60034-30
- US: ee labeling acc to EISA 2007 (Dept. of Energy)
- CA: CSA energy verified acc to EER 2010
- CN: CEL acc to GB 18613
- KR: KEL acc to REELS 2010
- BR: Alto Rendimento acc to Decreto n° 4.508
- AU: MEPS acc to AS/NZS 1359.5

Inverter Duty

- Conformance with NEMA MG 1-2009 Section 31.4.4.2 Voltage Spikes
- Speed range 5:1 constant torque
- Speed range 10:1 constant torque
- Speed range 20:1 constant torque
- Speed range 1000:1 constant torque

Standard Construction Features

- Dual mode use: 50 Hz and 60 Hz
- Shaft lip seals on both ends of the motor shafts
- Stator to endbell connections sealed to exclude moisture
- Double coated magnetic wire insulation
- Moisture resistant varnish dipped windings with improved varnish materials
- Inorganic insulating components for tropical protection
- Conduit box sealed with gaskets
- Corrosion resistant alloy materials
- Threaded cable entry holes



Environmental Protection

- IP55 protection class standard
- Totally Enclosed Fan Cooled (TEFC/IC411)
- Insulation Class F standard
- Bureau Veritas certified

Options

- Motor quick connectors
- IP66 protection class
- Insulation class H
- Thermal winding protection (thermistor/thermostat)
- Protection canopies (single, double, for textile industry)
- Space heater
- Brake (IP55 and IP66)
 - Corrosion and/or dust protection
 - (Lockable) hand release lever

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Member of the NORD DRIVESYSTEMS Group



Global Vision, Local Support

NORD makes its wide product range easily available through a global network that includes representation in over 60 countries. By providing all of our customers with prompt delivery, and expert support services, we are firmly committed to exceeding customer expectations and being responsive to the ideas and specifications of every customer, anywhere in the world.