

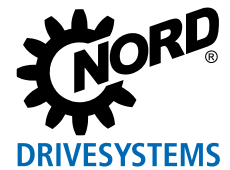
ALTO RENDIMENTO HIGH-EFFICIENCY IR3 MOTORS

- Available from 0.12 – 55 kW
- Low operating costs thanks to high efficiency
- Simple and highly flexible combination through compatibility with the modular NORD system
- Approved for use in Brazil



Type	IE	P _N [kW]	220V/380V						440V				
			IN _{220V} [A]	IN _{380V} [A]	n _N [rpm]	η ₁₀₀ [%]	M _A /M _N	M _K /M _N	IN _{440V} [A]	n _N [rpm]	η ₁₀₀ [%]	M _A /M _N	M _K /M _N
63 SP/4	IR3	0.12	0.67	0.39	1670	68.5	2.9	2.8	0.36	1680	68.0	3.0	3.0
63 LP/4	IR3	0.18	1.11	0.64	1690	69.5	3.6	3.4	0.56	1690	69.5	3.6	3.4
71 SP/4	IR3	0.25	1.26	0.73	1720	75.3	3.5	3.7	0.61	1720	75.3	3.4	3.5
71 LP/4	IR3	0.37	1.66	0.96	1720	79.2	3.0	3.3	0.81	1715	79.2	3.0	3.3
80 SP/4	IR3	0.55	2.32	1.34	1725	82.4	2.6	3.1	1.15	1725	82.4	2.6	3.1
80 LP/4	IR3	0.75	3.29	1.9	1730	86.1	3.4	3.8	1.58	1720	85.3	3.3	3.4
90 SP/4	IR3	1.1	4.4	2.54	1740	86.9	4.2	4.9	2.12	1740	86.5	3.8	4.4
90 LP/4	IR3	1.5	5.87	3.39	1730	87.0	3.9	4.3	2.83	1725	86.9	3.5	3.9
100 LP/4	IR3	2.2	8.05	4.65	1770	90.0	3.0	4.4	3.97	1765	89.8	2.7	4.1
100 AP/4	IR3	3	10.7	6.18	1765	89.5	2.7	4.2	5.43	1760	89.5	2.5	3.8
112 MP/4	IR3	3.7	13.7	7.89	1755	89.5	4.0	4.6	6.81	1755	89.5	4.0	4.6
112 MP/4	IR3	4.4	16.3	9.4	1750	89.5	3.8	4.4	8.12	1750	89.5	3.8	4.4
132 SP/4	IR3	5.5	20.4	11.8	1770	91.7	4.7	5.0	9.79	1765	91.7	4.2	4.5
132 MP/4	IR3	7.5	28.4	16.4	1765	91.7	4.7	5.0	13.6	1765	91.7	4.3	4.6
160 SP/4	IR3	9.2	33.1	19.1	1780	92.4	3.8	4.5	16.4	1780	92.4	3.8	4.5
160 MP/4	IR3	11	37.3	21.5	1770	92.5	3.2	3.8	18.6	1770	92.5	3.2	3.8
160 LP/4	IR3	15	49.9	28.8	1775	93.0	4.3	4.7	24.9	1775	93.0	4.3	4.7
180 MP/4	IR3	18.5	63.4	36.6	1780	93.6	3.9	4.0	31.9	1780	93.6	3.9	4.0
180 LP/4	IR3	22	72.7	42	1780	93.6	3.3	3.4	36.6	1780	93.6	3.3	3.4
225 RP/4	IR3	30	103.5	59.8	1785	94.2	3.4	3.8	49.8	1785	94.2	3.1	3.5
225 SP/4	IR3	37	125.2	72.3	1785	94.6	3.0	3.7	62.4	1785	94.6	3.0	3.7
225 MP/4	IR3	45	150.5	86.9	1785	95.2	3.3	3.6	75.3	1785	95.2	3.3	3.6
250 WP/4	IR3	55	176.5	101.9	1785	95.4	2.9	3.2	88.2	1785	95.4	2.9	3.2

ALTO RENDIMENTO HIGH-EFFICIENCY IR3 MOTORS



Versions

- IEC B3 foot mounting
- IEC B14 flange mounting
- IEC B5 flange mounting
- NEMA C-face flange mounting
- NEMA foot mounting
- Direct mounting to all NORD gear units

International certification

- CE mark according to European Union (EU) Low Voltage Directive

International energy efficiency standards

- EU: IE1 – IE4 as per IEC 60034-30
- BR: Alto Rendimento as per Decreto nº 4.508

Operation with frequency inverters

- Adjustment range 5:1 constant torque
- Adjustment range 10:1 constant torque
- Adjustment range 20:1 constant torque
- Adjustment range 1000:1 constant torque

Standard design features

- Shaft sealing rings on both ends of the motor shaft
- Sealed connection between stator and bearing covers
- Double wire insulation
- Dipped winding for improved moisture protection
- Inorganic insulation components for tropical protection
- Sealed terminal box
- Corrosion-resistant alloy
- Threaded cable glands



Environmental protection

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

Options

- Motor plugs
- IP66 protection class
- Insulation class H
- Thermal winding protection (thermistor/thermostat)
- Protective covers (single, double, for textile industry)
- Anti-condensation heating
- Brake (IP55 and IP66)
 - Corrosion and/or dust protected
 - (Lockable) manual release

Type plate

		ALTO Rendimento Premium		<input type="checkbox"/>
Type SK 90SP/4				2018
3-Mot. No.				
Th. Cl. 155(F) IP 55	S1	IEC 60034 (H)		
60Hz	220/380 V Δ/Y	Hz	V	
4.4/2.54 A	1.1 kW	A	kW	
cos φ 0.76	1740 min	cos φ	min	
REND IE3-86.5% IA / IN 8.4				
NBR 17094 Motor de Indução Gaiola de Esquilo				
CAT N	AMB -20...+45°C	SF 1.36	ISF 5.58/3.22 A	
15,1 kg	6205.2Z	6205.2Z		
Getriebbau NORD GmbH & Co. KG, 22941 Bargteheide / GERMANY www.nord.com				

NORD DRIVESYSTEMS Group

- Family business from Bargteheide near Hamburg with 3,900 employees
- Drive solutions for more than 100 branches of industry
- 7 production locations worldwide
- Present in 98 countries on 5 continents
- More information: www.nord.com

Headquarters:

Getriebbau NORD GmbH & Co. KG
Getriebbau-Nord-Str. 1
22941 Bargteheide, Germany
T +49 4532 289 0, F +49 4532 289 2253
info@nord.com

Member of the NORD DRIVESYSTEMS Group