

# NORD DRIVESYSTEMS UNIVERSAL MOTOR



- Full range from 0.12-45 kW available
- Applicable in Europe, USA, Canada, China, Eurasian Customs Union and other countries



Type	IE	PN	380 V 50 Hz			400 V 50 Hz			415 V 50 Hz			460 V 60 Hz		
			nN	IN	$\eta$ (100% PN)	nN	IN	$\eta$ (100% PN)	nN	IN	$\eta$ (100% PN)	nN	IN	$\eta$ (100% PN)
			[kW]	[rpm]	[A]	[%]	[rpm]	[A]	[%]	[rpm]	[A]	[%]	[rpm]	[A]
63 SP/4	IE3	0.12	1,350	0.41	65.80	1,370	0.39	66.40	1,385	0.41	66.30	1,695	0.36	68.50
63 LP/4	IE3	0.18	1,370	0.58	65.70	1,385	0.59	69.90	1,400	0.61	65.50	1,705	0.54	72.30
71 SP/4	IE3	0.25	1,405	0.71	74.50	1,415	0.70	74.30	1,425	0.71	74.20	1,725	0.63	75.80
71 LP/4	IE3	0.37	1,390	0.95	77.00	1,405	0.91	77.30	1,415	0.93	77.50	1,725	0.81	79.20
80 SP/4	IE3	0.55	1,405	1.37	80.60	1,420	1.29	81.40	1,430	1.31	81.60	1,735	1.15	83.40
80 LP/4	IE3	0.75	1,405	1.87	82.50	1,415	1.79	83.70	1,425	1.88	83.90	1,730	1.57	86.10
90 SP/4	IE3	1.1	1,420	2.45	84.90	1,430	2.38	85.30	1,435	2.42	85.50	1,740	2.10	86.90
90 LP/4	IE3	1.5	1,405	3.45	84.40	1,415	3.23	85.30	1,420	3.46	85.40	1,730	2.80	87.00
100 LP/4	IE3	2.2	1,460	4.68	87.70	1,465	4.27	88.10	1,470	4.56	88.40	1,770	3.84	90.00
100 AP/4	IE3	3	1,455	6.16	87.80	1,460	6.06	88.10	1,465	6.07	88.30	1,765	5.09	89.90
112 MP/4	IE3	4	1,430	8.42	88.10	1,440	7.85	88.60	1,445	8.31	88.70	1,750	6.85	90.30
132 SP/4	IE3	5.5	1,460	11.40	90.80	1,465	10.90	90.90	1,470	11.31	91.00	1,770	9.75	91.70
132 MP/4	IE3	7.5	1,455	15.95	90.10	1,460	15.70	90.40	1,465	16.04	90.30	1,765	13.40	91.70
160 MP/4	IE3	11	1,460	21.50	91.10	1,465	20.50	91.40	1,470	20.19	91.70	1,770	17.80	92.50
160 LP/4	IE3	15	1,460	28.80	92.00	1,465	27.90	92.30	1,470	27.71	92.60	1,775	23.80	93.00
180 MP/4	IE3	18.5	1,475	35.00	92.70	1,480	34.00	93.10	1,480	33.34	93.40	1,780	30.30	93.60
180 LP/4	IE3	22	1,470	41.50	92.80	1,475	39.30	93.10	1,475	39.57	93.30	1,780	34.80	93.60
225 RP/4	IE3	30	1,485	57.90	94.00	1,485	56.20	94.10	1,485	55.42	94.30	1,785	49.50	94.50
225 SP/4	IE3	37	1,485	70.70	93.90	1,485	68.20	94.10	1,485	67.60	94.10	1,785	59.70	94.60
225 MP/4	IE3	45	1,485	85.00	94.50	1,485	81.70	94.60	1,485	81.43	94.60	1,785	72.00	95.20



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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
- 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
- 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

## Nameplate

3-Mot. SK DCSPI4 CUS-BRE 20									
V	Hz	A	kW	HP	cos φ	rpm	Norm. EFF.	SF	IEC
380	50	2.51	1.1	1.5	0.78	1430	85.3	1.15	
400	50	2.38	1.1	1.5	0.78	1430	85.3	1.36	IE3
415	50	2.29	1.1	1.5	0.78	1430	85.3	1.15	
480	60	2.10	1.1	1.5	0.78	1740	86.9	1.36	IE3

S1 Tamb -20...45 °C 20.7 kg  
 IECEN 60034 (H) NEMA CODE L  
 Th. Cl 155(F) IP 55 TEFC DP  
 三相异步电动机 Stabte at 480 V 60Hz  
 Over Temp Prot-2 Class F Stabte at 480 V 60Hz  
 Brake 20 Nm 230 VAC 205 VDC  
 201912345-1200 80 12345678

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Example for 1.1 kW/1.5 hp motor

## NORD DRIVESYSTEMS Group

- Family business from Bargteheide near Hamburg with 4,000 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](http://www.nord.com)

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