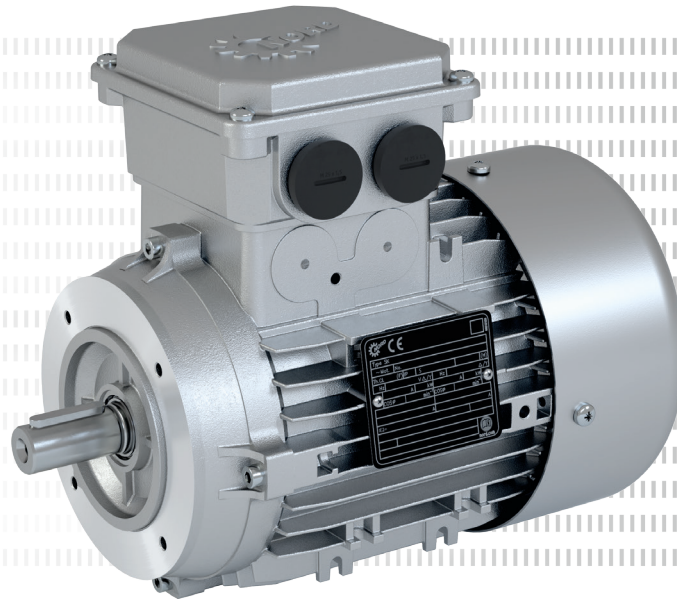
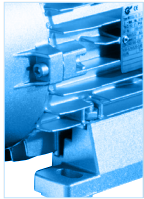


# Universal Motor

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



Typ	IE	PN	230/400 50 Hz				240/415 50 Hz				220/380 50 Hz				265/460 60 Hz			
			nN	I <sub>N 230V</sub>	I <sub>N 400V</sub>	η (100% PN)	nN	I <sub>N 240V</sub>	I <sub>N 415V</sub>	η (100% PN)	nN	I <sub>N 220V</sub>	I <sub>N 380V</sub>	η (100% PN)	nN	I <sub>N 265V</sub>	I <sub>N 460V</sub>	η (100% PN)
		[kW]	[rpm]	[A]	[A]	[%]	[rpm]	[A]	[A]	[%]	[rpm]	[A]	[A]	[%]	[rpm]	[A]	[A]	[%]
63 SP/4	IE3	0,120	1370	0,68	0,39	66,4	1385	0,71	0,41	66,3	1350	0,71	0,41	65,8	1695	0,62	0,36	68,5
63 LP/4	IE3	0,180	1385	1,02	0,59	69,9	1400	1,05	0,61	65,5	1370	1,01	0,58	65,7	1705	0,94	0,54	72,3
71 SP/4	IE3	0,250	1415	1,21	0,70	74,3	1425	1,23	0,71	74,2	1405	1,22	0,71	74,5	1725	1,09	0,63	75,8
71 LP/4	IE3	0,370	1405	1,58	0,91	77,3	1415	1,05	0,61	77,5	1390	1,65	0,95	77,0	1725	1,40	0,81	79,2
80 SP/4	IE3	0,550	1420	2,23	1,29	81,4	1430	2,26	1,31	81,6	1405	2,37	1,37	81,4	1735	1,99	1,15	83,4
80 LP/4	IE3	0,750	1415	3,10	1,79	83,7	1420	3,25	1,88	83,7	1405	3,24	1,87	83,7	1730	2,72	1,57	85,5
90 SP/4	IE3	1,100	1430	4,12	2,38	85,3	1420	3,25	1,88	85,3	1430	4,25	2,45	85,3	1740	3,64	2,10	86,5
90 LP/4	IE3	1,500	1415	5,59	3,23	85,3	1420	6,00	3,46	85,4	1405	5,94	3,45	84,4	1730	4,85	2,80	86,5
100 LP/4	IE3	2,200	1465	7,40	4,27	88,1	1470	7,90	4,56	88,1	1460	8,11	4,68	88,1	1770	6,65	3,84	89,5
100 AP/4	IE3	3,000	1460	10,50	6,06	88,1	1465	10,52	6,07	88,3	1455	10,67	6,16	87,8	1765	8,82	5,09	89,9
112 MP/4	IE3	4,000	1440	13,60	7,85	88,6	1445	14,39	8,31	88,7	1430	14,58	8,42	88,1	1750	11,90	6,85	90,3
132 SP/4	IE3	5,500	1465	18,90	10,90	90,9	1470	19,59	11,31	91,0	1460	19,70	11,37	90,8	1770	16,90	9,75	91,7
132 MP/4	IE3	7,500	1460	27,30	15,70	90,4	1465	27,87	16,04	90,3	1455	27,46	15,85	90,1	1765	23,20	13,40	91,7
160 MP/4	IE3	11,000	1465	35,50	20,50	91,4	1470	34,97	20,19	91,4	1460	37,17	21,46	91,4	1770	30,80	17,80	92,5
160 LP/4	IE3	15,000	1465	48,30	27,90	92,3	1470	48,00	27,71	92,6	1460	49,79	28,75	92,0	1775	41,20	23,80	93,0
180 MP/4	IE3	18,500	1480	58,90	34,00	93,1	1480	57,75	33,34	93,1	1475	60,63	35,00	93,1	1780	52,50	30,30	93,6
180 LP/4	IE3	22,000	1475	68,10	39,30	93,1	1475	68,54	39,57	93,3	1470	71,88	41,50	92,8	1780	60,30	34,80	93,6
225 RP/4	IE3	30,000	1485	97,30	56,20	94,1	1485	96,00	55,42	94,3	1485	100,31	57,91	94,0	1785	85,70	49,50	94,5
225 SP/4	IE3	37,000	1485	118,10	68,20	94,1	1485	117,08	67,60	94,1	1485	122,40	70,67	93,9	1785	103,40	59,70	94,6
225 MP/4	IE3	45,000	1485	141,50	81,70	94,6	1485	141,05	81,43	94,6	1485	147,21	84,99	94,5	1785	124,70	72,00	95,2



## 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
- ▶ Certification of Conformity (Ukraine)



## 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
- ▶ IN: IS 12615:2018

## Inverter Duty

- ▶ Conformance with NEMA MG 1-2009 Section 31.4.4.2 Voltage Spikes



## 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 50 SP/4 CUS TF BRE20							
V	D/Y	Hz	A	kW	hp	cos φ	r/min	Nom.EFF	
220/380		50	4.25/2.45	1.1	1.5	0.81	1420	84.9	
230/400		50	4.12/2.38	1.1	1.5	0.78	1430	85.3	IE3
240/415		50	4.19/2.42	1.1	1.5	0.76	1435	85.5	
265/460		60	3.64/2.14	1.1	1.5	0.76	1740	86.9	IE3
S1		Tamb 40 °C						20.7 kg	
IEC/EN 60034 (H) SF 1,15 NEMA CODE L									
Th. Cl 155(F) IP 55 TEFC DP									
三相异步电动机 Usable at 440V Y 60Hz									
Over Temp Prot-2 Class F Usable at 480V Y 60Hz									
Brake 20 Nm 230 VAC 205 VDC									
201912345-1200 930 12345678 2020									

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)

### Headquarters:

Getriebebau NORD GmbH & Co. KG  
 Getriebebau-Nord-Str. 1  
 22941 Bargteheide, Germany  
 T +49 4532 2890  
 F +49 4532 289 2253  
[info@nord.com](mailto:info@nord.com)