Clear Form

Motor Ordering Guide

NORD DRIVESYSTEMS

	Frame ❶	Size ❷	Poles ❹	Mounting ❸	Motor Options ❺	Brake Size ❻	Brake Options ❼
SK							

OR Part Number

Size & Frame Combinations ❶ ❷

Frame	Size			
63	S	L	-	-
71	S	-	-	-
71	L	-	-	-
80	S	-	-	-
80	L	LP	-	-
90	S	SP	-	-
100	L	LP	LA	AP
112	M	MP	-	-
132	S	SP	-	-
132	M	MP	-	-
160	S	SP	-	-
160	M	MP	-	-
160	L	LP	-	-
180	MX	-	-	-
180	LX	-	-	-
180	MP	-	-	-
180	LP	-	-	-
200	X	-	-	-

Available Mounting Combinations ❸

NEMA Foot		NEMA C-face		IEC B3	IEC B5	IEC B14			
-	-	56C	-	-	A140	C90	C105	C120	-
56	-	56C	-	B3-71S	A160	C105	C120	C140	-
56	-	56C	-	B3-71L	A160	C105	C120	C140	-
56	-	56C	-	B3-80S	A200	C120	C140	C160	-
56	143T	56C	143TC	B3-80L	A200	C120	C140	C160	-
145T	-	145TC	-	B3-90S	A200	C120	C140	C160	-
182T	-	182TC	-	B3-100L	A250	C120	C140	C160	C200
184T	-	184TC	-	B3-112M	A250	C140	C160	C200	-
213T	-	213TC	-	B3-132S	A300	C160	C200	-	-
215T	-	215TC	-	B3-132M	A300	C160	C200	-	-
-	-	254TC	-	B3-160S	A300	C200	-	-	-
-	-	256TC	-	B3-160M	A300	C200	-	-	-
-	-	256TC	-	B3-160L	A300	C200	-	-	-
-	-	284TC	-	-	A300	C200	-	-	-
-	-	286TC	-	-	A350	C200	-	-	-
-	-	284TC	-	B3-180M	A350	-	-	-	-
-	-	286TC	-	B3-180L	A350	-	-	-	-
-	-	-	-	-	A400	-	-	-	-

Poles ❹

Poles	60Hz [rpm]	50Hz [rpm]
4	1800	1500
2	3600	3000
6	1200	1000
4-2	1800/3600	1500/3000
8-2	1200/3600	1000/3000

Other

Duty

- ❍ Continuous S1
- ❍ Time Rated S2 [min]
- ❍ Intermittant S3 [%]

Enclosure

- ❍ IP55
- ❍ IP65
- ❍ IP66

Country of Use

Power

_____ [hp/kW]

Efficiency Class

- ❍ None
- ❍ Premium Efficient (PE/IE3) (P)

Motor Options ❺

Electrical Motor Options

- ❒ **TW** - Thermostat
- ❒ **TF** - Thermistor
- ❒ **SH** - Space Heater (select voltage)
  ❍ 110 Volt ❍ 230 Volt ❍ 460 Volt
- ❒ **ISO** H - Class H insulation
- ❒ **WU** - High Resistance Rotor

AC Drive Related Motor Options

- ❒ **F** - Blower Fan (200-575V 1 & 3 Phase)
- ❒ **FC** - Blower Cooling Fan (115V, 1 Phase)
- ❒ **IG__** - Incremental Encoder
- ❒ **IG__P** - Incremental Encoder with Plug
  IG & IG__P Options:
  Logic: ❍ TTL ❍ HTL ❍ Push-pull
  Supply: ❍ 4-6V ❍ 10-30V ❍ 5-30V
  PPR: ❍ 1024 ❍ 2048 ❍ 4096
- ❒ **AG** - Absolute Encoder
  AG Options: Turns [ ] Step [ ]
  AG Bus System: [ ]
- ❒ **MG** -Magnetic Encoder **PPR:** ❍ 1 ❍ 32 ❍ 256

Environmental Motor Options

- ❒ **RD** - Canopy Drip Cover
- ❒ **RDD** - Double Fan Cover
- ❒ **KB** - Condensation Drain Holes (plugged)
- ❒ **KBO** - Condensation Drain Holes (open)
- ❒ **IP66** - IP66 Enclosure Protection
- ❒ **KKV** - Terminal Box Sealed with Resin
- ❒ **AICM** - Additional Insulation
- ❒ **EP** - Epoxy Dipped Windings

Additional Motor Options

- ❒ **OL** - Totally Enclosed Non-Ventilated (TENV)
- ❒ **OL/H** - (TENV) Without Fan Cover
- ❒ **WE** - Second Shaft Extension (Fan Side)
- ❒ **HR** - Hand Wheel
- ❒ **Z** - High Inertia Cast Iron Fan
- ❒ **RLS** - Motor Backstop (rotation viewing fan)
  ❍ Clockwise ❍ Counter-Clockwise
- ❒ **EKK** - Small Terminal Box
- ❒ **MS** - Quick Power Plug Connector

Brake Options ❼

- ❒ **HL** - Hand Release Lever
- ❒ **FHL** - Locking Hand Release Lever
- ❒ **HLH** - Hand Release Lever with Hole
- ❒ **RG** - Corrosion Protected Brake
- ❒ **SR** - Dust & Corrosion Protected Brake
- ❒ **ADJ**_____**Nm** - Brake Torque Adjustment
- ❒ **BIP66** - IP66 Brake Enclosure
- ❒ **MIK** - Micro-switch
- ❒ **BSH** - Brake Heating/Bifilar Coil
- ❒ **NRB1** - Quiet Brake Release
- ❒ **NRB2** - Quiet Brakemotor Operation
- ❒ **DBR** - Double Brake
- ❒ **G...P** - High Performance Rectifier (See Rectifier Selection Below)
- ❒ **G...V** - Sealed Rectifier (See Rectifier Selection Below)
- ❒ **IR** - Current Sensing Relay

Standards

- ❍ North American [CUS]
- ❍ International [IEC]
- ❍ Other: _____

Inverter Duty Speed Range

- ❍ 5:1 (60-12Hz) (VR)
- ❍ 10:1 (60-6Hz) (VN)
- ❍ 20:1 (80-4Hz) (VW)
- ❍ 1000:1 (60-0Hz) (VZ-F)

Electrical Design

- ❍ 3-Phase
- ❍ Single Phase - ECR (60Hz)
- ❍ Single Phase - EAR1 (50Hz)
- ❍ Single Phase -EHB1 (50Hz)
- ❍ Single Phase - EST (50Hz)

Hazerdous Location

- ❍ None
- ❍ Class 1 Div 2 - Gas
- ❍ Class 2 Div 2 - Dust
- ❍ Global - ATEX

Brake Size ❻

❍ BRE 5	❍ BRE 100
❍ BRE 10	❍ BRE 150
❍ BRE 20	❍ BRE 250
❍ BRE 40	❍ BRE 400
❍ BRE 60	❍ BRE 800

Rectifier Selection

Rectifier Wiring

- ❍ Across the line (from terminal box)
- ❍ Separate power source (AC vector drive) (Soft starter)

Brake Supply Voltage

- ❍ 24 VDC
- ❍ 115 VAC
- ❍ 200 VAC
- ❍ 230 VAC
- ❍ 400 VAC
- ❍ 460 VAC
- ❍ 500 VAC
- ❍ 575 VAC
- ❍ Other _____

Braking Method*

- ❍ Method 10
- ❍ Method 15
- ❍ Method 20
- ❍ Method 25
- ❍ Method 30
- ❍ Method 35
- ❍ Method 40
- ❍ Method 45
- ❍ Method 50
- ❍ Method 55

* More info on page 114

Paint Options

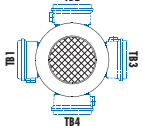
- ❍ Unpainted Aluminum Alloy
- ❍ Stainless Steel Paint
- ❍ Special _____

Voltage & Frequency

Single Speed Motors	Two Speed Motors
❍ 230/460V-60Hz	❍ 460V-60Hz
❍ 208-230/460V-60Hz	❍ 230V-60Hz
❍ 575V-60Hz	❍ 575V-60Hz
❍ 400V-50Hz	❍ 400V-50Hz
❍ Other	❍ Other

Terminal Box Position

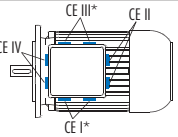
- ❍ TB1
- ❍ TB2
- ❍ TB3
- ❍ TB4



Mtg. Pos. M1 Shown

Conduit Entry Location

- ❍ CE I *
- ❍ CE II
- ❍ CE III *
- ❍ CE IV



*Brakemotor

Mtg. Pos. M1 Shown

Hand Release Position

- ❍ HL1
- ❍ HL2
- ❍ HL3
- ❍ HL4