

# Motor Ordering Guide



<b>SK</b>	Frame ①	Size ②	Poles ④	Mounting ⑤	Motor Options ⑥	Brake Size ⑦	Brake Options ⑧
	<b>OR</b> Part Number						

Frame	Size ②			
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 ⑤									
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 ④		
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		Enclosure
<input type="radio"/> Continuous S1		<input type="radio"/> IP55
<input type="radio"/> Time Rated S2 [min]		<input type="radio"/> IP65
<input type="radio"/> Intermittant S3 [%]		<input type="radio"/> IP66
Country of Use		
Power		
[hp/kW]		
Efficiency Class		
<input type="radio"/> None		
<input type="radio"/> Premium Efficient (PE/IE3) (P)		

Motor Options ⑥	
<b>Electrical Motor Options</b>	<b>Environmental Motor Options</b>
<input type="checkbox"/> TW - Thermostat <input type="checkbox"/> TF - Thermistor <input type="checkbox"/> SH - Space Heater (select voltage) <input type="checkbox"/> 110 Volt <input type="checkbox"/> 230 Volt <input type="checkbox"/> 460 Volt <input type="checkbox"/> ISO H - Class H insulation <input type="checkbox"/> WU - High Resistance Rotor <b>AC Drive Related Motor Options</b> <input type="checkbox"/> F - Blower Fan (200-575V 1 & 3 Phase) <input type="checkbox"/> FC - Blower Cooling Fan (115V, 1 Phase) <input type="checkbox"/> IG - Incremental Encoder <input type="checkbox"/> IG_P - Incremental Encoder with Plug <b>IG &amp; IG_P Options:</b> Logic: <input type="checkbox"/> TTL <input type="checkbox"/> HTL <input type="checkbox"/> Push-pull Supply: <input type="checkbox"/> 4-6V <input type="checkbox"/> 10-30V <input type="checkbox"/> 5-30V PPR: <input type="checkbox"/> 1024 <input type="checkbox"/> 2048 <input type="checkbox"/> 4096 <input type="checkbox"/> AG - Absolute Encoder <b>AG Options:</b> Turns: <input type="text"/> Step: <input type="text"/> <b>AG Bus System:</b> <input type="text"/> <input type="checkbox"/> MG - Magnetic Encoder PPR: <input type="checkbox"/> 1 <input type="checkbox"/> 32 <input type="checkbox"/> 256	<input type="checkbox"/> RD - Canopy Drip Cover <input type="checkbox"/> RDD - Double Fan Cover <input type="checkbox"/> KB - Condensation Drain Holes (plugged) <input type="checkbox"/> KBO - Condensation Drain Holes (open) <input type="checkbox"/> IP66 - IP66 Enclosure Protection <input type="checkbox"/> KKV - Terminal Box Sealed with Resin <input type="checkbox"/> AICM - Additional Insulation <input type="checkbox"/> EP - Epoxy Dipped Windings <b>Additional Motor Options</b> <input type="checkbox"/> OL - Totally Enclosed Non-Ventilated (TENV) <input type="checkbox"/> OL/H - (TENV) Without Fan Cover <input type="checkbox"/> WE - Second Shaft Extension (Fan Side) <input type="checkbox"/> HR - Hand Wheel <input type="checkbox"/> Z - High Inertia Cast Iron Fan <input type="checkbox"/> RLS - Motor Backstop (rotation viewing fan) <input type="checkbox"/> Clockwise <input type="checkbox"/> Counter-Clockwise <input type="checkbox"/> EKK - Small Terminal Box <input type="checkbox"/> MS - Quick Power Plug Connector

Brake Options ⑧
<input type="checkbox"/> HL - Hand Release Lever <input type="checkbox"/> FHL - Locking Hand Release Lever <input type="checkbox"/> HLH - Hand Release Lever with Hole <input type="checkbox"/> RG - Corrosion Protected Brake <input type="checkbox"/> SR - Dust & Corrosion Protected Brake <input type="checkbox"/> ADJ - Nm - Brake Torque Adjustment <input type="checkbox"/> BIP66 - IP66 Brake Enclosure <input type="checkbox"/> MIK - Micro-switch <input type="checkbox"/> BSH - Brake Heating/Bifilar Coil <input type="checkbox"/> NRB1 - Quiet Brake Release <input type="checkbox"/> NRB2 - Quiet Brakemotor Operation <input type="checkbox"/> DBR - Double Brake <input type="checkbox"/> G...P - High Performance Rectifier (See Rectifier Selection Below) <input type="checkbox"/> G...V - Sealed Rectifier (See Rectifier Selection Below) <input type="checkbox"/> IR - Current Sensing Relay

Standards
<input type="radio"/> North American [CUS]
<input type="radio"/> International [IEC]
<input type="radio"/> Other: <input type="text"/>
<b>Inverter Duty Speed Range</b>
<input type="radio"/> 5:1 (60-12Hz) (VR)
<input type="radio"/> 10:1 (60-6Hz) (VN)
<input type="radio"/> 20:1 (80-4Hz) (VW)
<input type="radio"/> 1000:1 (60-0Hz) (VZ-F)
<b>Electrical Design</b>
<input type="radio"/> 3-Phase
<input type="radio"/> Single Phase - ECR (60Hz)
<input type="radio"/> Single Phase - EAR1 (50Hz)
<input type="radio"/> Single Phase - EHB1 (50Hz)
<input type="radio"/> Single Phase - EST (50Hz)
<b>Hazardous Location</b>
<input type="radio"/> None
<input type="radio"/> Class 1 Div 2 - Gas
<input type="radio"/> Class 2 Div 2 - Dust
<input type="radio"/> Global - ATEX

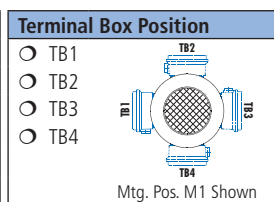
Brake Size ⑦	
<input type="radio"/> BRE 5	<input type="radio"/> BRE 100
<input type="radio"/> BRE 10	<input type="radio"/> BRE 150
<input type="radio"/> BRE 20	<input type="radio"/> BRE 250
<input type="radio"/> BRE 40	<input type="radio"/> BRE 400
<input type="radio"/> BRE 60	<input type="radio"/> BRE 800

Rectifier Selection		
<b>Rectifier Wiring</b>	<b>Brake Supply Voltage</b>	<b>Braking Method*</b>
<input type="radio"/> Across the line (from terminal box) <input type="radio"/> Separate power source (AC vector drive) (Soft starter)	<input type="radio"/> 24 VDC <input type="radio"/> 460 VAC <input type="radio"/> 115 VAC <input type="radio"/> 500 VAC <input type="radio"/> 200 VAC <input type="radio"/> 575 VAC <input type="radio"/> 230 VAC <input type="radio"/> Other <input type="text"/> <input type="radio"/> 400 VAC	<input type="radio"/> Method 10 <input type="radio"/> Method 35 <input type="radio"/> Method 15 <input type="radio"/> Method 40 <input type="radio"/> Method 20 <input type="radio"/> Method 45 <input type="radio"/> Method 25 <input type="radio"/> Method 50 <input type="radio"/> Method 30 <input type="radio"/> Method 55 * More info on page 114

Paint Options
<input type="radio"/> Unpainted Aluminum Alloy
<input type="radio"/> Stainless Steel Paint
<input type="radio"/> NSD+ (gray)
<input type="radio"/> NSD+W (white)
<input type="radio"/> NSD-X3 (gray)
<input type="radio"/> NSD-X3W (white)
<input type="radio"/> Special <input type="text"/>

Voltage & Frequency	
<b>Single Speed Motors</b>	<b>Two Speed Motors</b>
<input type="radio"/> 230/460V-60Hz <input type="radio"/> 208-230/460V-60Hz <input type="radio"/> 575V-60Hz <input type="radio"/> 400V-50Hz <input type="radio"/> Other	<input type="radio"/> 460V-60Hz <input type="radio"/> 230V-60Hz <input type="radio"/> 575V-60Hz <input type="radio"/> 400V-50Hz <input type="radio"/> Other

Terminal Box Position
<input type="radio"/> TB1 <input type="radio"/> TB2 <input type="radio"/> TB3 <input type="radio"/> TB4



Conduit Entry Location
<input type="radio"/> CE I * <input type="radio"/> CE II <input type="radio"/> CE III * <input type="radio"/> CE IV

