

LEESON AC METRIC (IEC) MOTORS

THREE PHASE



AC METRIC MOTORS

These high efficiency motors meet North American performance standards and EPACT energy efficiency mandates, and have 1.15 service factors.

Typically used for replacement on machine tools, textile machinery and other equipment with metric dimensions but requiring the heavy-duty torque and performance of motors designed for use in North America.

Two frame constructions are offered:

Aluminum frame models are designated with a 192000 series catalog number, while **cast iron frame** models are 193000 series.

Both types are built to meet international standards and feature IP55 weatherproof enclosures, 60/50 Hz interchangeability (60Hz 230/460 V & 50Hz 200/400V), dual stamped nameplates, CE mark, and F3 conduit box location. Kits are available for field conversion from B3 to B3/B5 or B3/B14.

LEESON's Inverter Rated Insulation System, (IRIS™) provides superior protection against voltage spikes induced by variable frequency drives. Always available on cast iron motors now available on aluminum motors produced January 2004 and later.



ALUMINUM FRAME

CSA: File number LR33543
UL: File number E57948 for motors produced January 2004 and later

IP55 weatherproof enclosure allows for use in a wide range of applications.

Drain Hole locations in four quadrants can be drilled-out for multi-position condensate drainage.

D flange (B5) and C face (B14) models available. Field conversion kits also offered.

"Captive Shaft" keyway.

Drilled and tapped shaft.

Oil seals on both the drive end and non drive end.

High efficiency design utilizes low-loss steel laminations for optimum power and performance.

Terminal Boards included.
• 230/460V motors have 9 leads.
• 575V motors have 3 leads.
• All terminal boards have 6 posts.

Conduit box with neoprene gaskets. Reposition metric "PG" tapped lead exit hole by rotating box in 90 degree increments. Move box to F1 or F2 position by relocating motor feet.

Special design steel fan cover and low-noise fan maximize airflow efficiency.

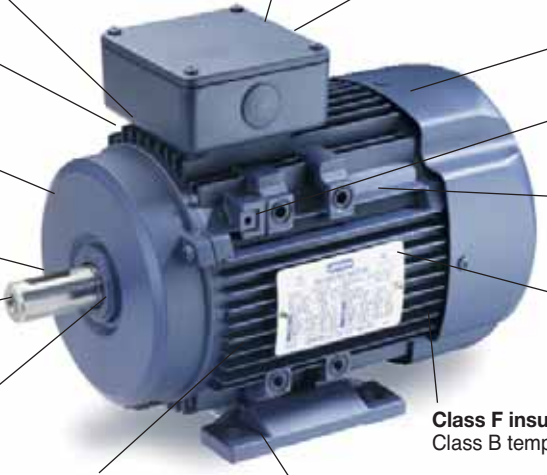
External grounding provision.

Multi-mount repositionable feet allow for three conduit box positions (F2, F1, F3).

Aluminum "full fact" nameplate with information on motor efficiency and power factor. Stamped with 60 Hz and 50 Hz data.

Class F insulation system with Class B temperature rise or lower.

Removable feet.



CAST IRON FRAME

CSA: File number LR62104
UL: File number E57948 for motors produced June 2003 and later

Terminal Boards included.
• 230/460V motors, 132-frame and larger have 12 leads and 9 post terminal boards.
• 230/460V motors, smaller than 132-frame have 9 leads and 6 post terminal boards.
• 575V motors have 3 leads and 6 post terminal boards.

IP55 weatherproof enclosure allows for use in a wide range of applications.

D flange (B5) and C face (B14) models available. Field conversion kits also offered.

Drilled and tapped shaft.

Oil seals on both the drive end and non drive end.

Cast iron mounting feet are precision machined for accurate alignment.

Conduit box with neoprene gaskets. Reposition metric "PG" threaded lead exit by rotating box in 90 degree increments. Motors 132 frame and larger have second lead exit hole for auxiliary box. Box is fixed at F3 location.

Heavy-duty cast iron construction includes frame, endbells and conduit box.

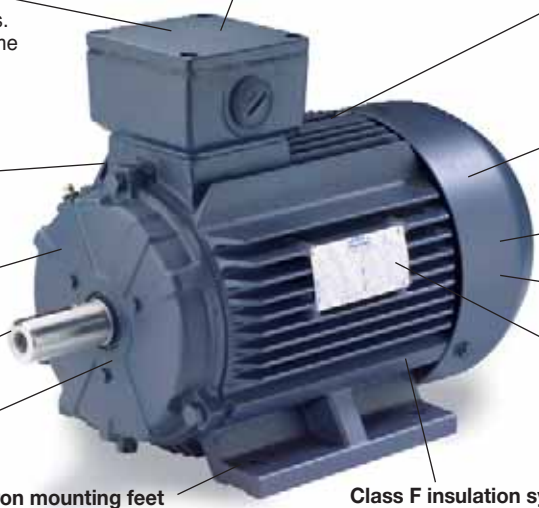
High efficiency design utilizes low-loss steel laminations for optimum power and performance.

Non-sparking fan. Small size reduces noise and enhances efficiency.

Steel fan cover.

Stainless steel "full fact" nameplate with information on motor efficiency and power factor. Stamped with 60 Hz and 50 Hz data

Class F insulation system with Class B temperature rise or lower.



B3 FOOT-MOUNTED METRIC MOTORS • 230/460V

Metric-dimensioned, AC motors meeting North American performance standards, including 1.15 service factor and EPACT efficiencies. For replacement use on machine tools, textile machinery and other equipment with metric dimensions but requiring the heavy-duty torque and performance characteristics of motors designed for use in North America.

IP55 weatherproof enclosures, 60/50 Hz interchangeability (60Hz 230/460V & 50Hz 200/400V), dual stamped nameplates, CE mark, and F3 conduit box location. Kits are available for field conversion from B3 to B3/B5 or B3/B14. See pages 74 and 75 for details.

Motors are available in one of two frame constructions: aluminum or cast iron. Aluminum frame models are designated with a 192000 series catalog number; cast iron models are 193000 series.



THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4-0.18	3425	D63	192010	\$209	A	10	230/460	0.8	72.0	8.55
	1700	D63	192011	218	A	11	230/460	1.1	68.0	8.55
	1100	D71	192012	371	A	12	230/460	1.2	64.0	9.16
1/3-0.25	3425	D63	192020	240	A	11	230/460	1.1	72.0	8.55
	1700	D71	192021	254	A	13	230/460	1.4	68.0	9.46
	1100	D80	192022	397	A	17	230/460	1.3	70.0	11.11
1/2-0.37	3425	D71	192030	261	A	13	230/460	1.6	74.0	9.46
	1700	D71	192031	265	A	14	230/460	1.8	74.0	9.46
	1100	D80	192032	415	A	19	230/460	1.9	72.0	11.11
3/4-0.55	3425	D71	192040	272	A	15	230/460	2.4	74.0	9.46
	1700	D80	192041	287	A	18	230/460	2.5	74.0	11.11
	1100	D80	192042	444	A	22	230/460	2.7	72.0	11.11
1-0.75	3425	D80	192050	309	A	21	230/460	2.8	75.5	11.11
	1700	D80	192051	315	A	26	230/460	3.2	80.0	11.11
	1100	D90S	192052	463	B	33	230/460	3.3	80.0	12.61
1 1/2-1.1	3425	D80	192060	342	B	27	230/460	4.0	84.0	11.11
	1700	D90S	192061	350	B	37	230/460	4.6	85.5	12.61
2-1.5	3425	D90S	192070	365	B	33	230/460	5.2	85.5	12.61
	1700	D90L	192071	377	B	38	230/460	5.8	84.0	12.61
	1100	DF100L	193072	613	B	82	230/460	6.4	84.0	14.97
3-2.2	3425	D90L	192080	525	B	39	230/460	7.2	86.5	12.61
	1750	DF100L	193081	594	B	84	230/460	8.2	87.5	14.97
	1140	DF112M	193082	862	B	100	230/460	9.6	87.5	15.76
4-3	3510	DF100L	193090	633	B	71	230/460	10.0	87.5	14.97
	1750	DF100L	193091	645	B	84	230/460	10.4	85.5	14.97
	1180	DF132S	193092	1045	B	154	230/460	13.4	87.5	18.72
5 1/2-4	3510	DF112M	193100	814	B	104	230/460	13.6	87.5	15.76
	1750	DF112M	193101	785	B	104	230/460	15.0	87.5	15.76
	1180	DF132M	193102	1208	B	176	230/460	17.6	87.5	20.29
7 1/2-5.5	3510	DF132S	193110	1021	B	152	230/460	18.4	88.5	18.72
	1760	DF132S	193111	1021	B	150	230/460	19.8	89.5	18.72
	1180	DF132M	193112	1452	B	180	230/460	22.0	89.5	20.29
10-7.5	3510	DF132S	193120	1093	B	163	230/460	24.0	89.5	18.72
	1760	DF132M	193121	1211	B	174	230/460	26.2	89.5	20.29
	1180	DF160M	193122	1883	C	251	230/460	27.2	89.5	23.64
15-11	3550	DF160M	193130	1769	C	260	230/460	34.4	91.0	23.64
	1760	DF160M	193131	1769	C	264	230/460	36.6	91.0	23.64
	1180	DF160L	193132	2417	C	330	230/460	38.8	90.2	25.39

THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
20-15	3550	DF160M	193140	\$2076	C	269	230/460	47.0	91.0	23.64
	1760	DF160L	193141	2188	C	311	230/460	47.6	91.7	25.41
	1180	DF180L	193142	3389	C	385	230/460	51.4	90.2	27.97
25-18.5	3550	DF160L	193150	2527	C	319	230/460	57.2	91.0	25.41
	1775	DF180M	193151	2781	C	381	230/460	59.4	92.4	26.40
	1180	DF200L	193152	4252	C	517	230/460	64.0	91.7	30.54
30-22	3550	DF180M	193160	3003	C	355	230/460	68.8	91.0	26.40
	1775	DF180L	193161	3125	C	427	230/460	71.0	93.0	27.97
	1180	DF200L	193162	4816	C	467	230/460	76.0	91.7	30.54
40-30	3550	DF200L	193170	4275	C	522	230/460	94.0	91.7	30.54
	1775	DF200L	193171	4602	C	531	230/460	94.0	93.0	30.54
	1180	DF225M	193172	7234	C	633	230/460	100.0	93.0	33.29
50-37	3550	DF200L	193180	5606	C	546	230/460	117.0	92.4	30.54
	1775	DF225S	193181	6384	C	632	230/460	118.0	93.0	32.31
	1180	DF250M	193182	10140	C	655	230/460	120.0	93.0	36.61

METRIC (IEC) B5 FLANGE KITS

Includes parts to convert these B3 rigid mount motors to a B5 flange mounting. See kits on page 78.



METRIC (IEC) B14 FACE KITS

Includes parts to convert these B3 rigid mount motors to a B14 face mounting. See kits on page 79.



REDUCED DIAMETER METRIC FLANGES

Imported OEM equipment can often have a flange face that is different from it's motor's frame size. LEESON now stocks metric (IEC) reduced diameter B14 flanges so you can put a 71 frame flange on an 80 frame motor for example. Flanges come pre-fitted with oil seals and have all the necessary hardware for easy field mounting.

Motor Frame	B14 Flange Frame	Catalogue Number	List Price
63	56	175900	\$48
71	63	175901	54
80	71	175902	62
90	80	175903	65



12-lead Delta windings (160MD frame and larger)
for across-the-line or wye-delta starts.

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

See Page 310 for metric IEC Motor Dimensions
Catalog numbers in green are EPACT motors.

All three phase motors, 1 HP and above, are inverter
rated. Refer to page 5 for speed ranges.



AC METRIC (IEC) MOTORS

THREE PHASE • RIGID BASE WITH FLANGE

B3/B5 FLANGE-MOUNTED METRIC MOTORS • 230/460V

Metric-dimensioned, AC motors meeting North American performance standards, including 1.15 service factor and EPACT efficiencies. Motors have both B5 flange mounting and B3 base.

Typically used for replacement on machine tools, textile machinery and other equipment with metric dimensions but requiring the heavy-duty torque and performance characteristics of motors designed for use in North America.

IP55 weatherproof enclosures, 60/50 Hz interchangeability (60Hz 230/460V & 50Hz 200/400V), dual stamped nameplates, CE mark, and F3 conduit box location.

Motors are available in one of two frame constructions: aluminum or cast iron. Aluminum frame models are designated with a 192000 series catalog number; cast iron models are 193000 series.



THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4-0.18	3425	D63D	192014	\$240	A	10	230/460	0.8	72.0	8.54
	1700	D63D	192015	248	A	11	230/460	1.0	68.0	8.54
	1100	D71D	192016	425	A	12	230/460	1.2	64.0	9.45
1/3-0.25	3425	D63D	192024	277	A	11	230/460	1.1	72.0	8.54
	1700	D71D	192025	286	A	13	230/460	1.4	68.0	9.45
	1100	D80D	192026	458	A	17	230/460	1.3	70.0	11.10
1/2-0.37	3425	D71D	192034	285	A	13	230/460	1.6	74.0	9.45
	1700	D71D	192035	295	A	14	230/460	1.8	74.0	9.45
	1100	D80D	192036	474	A	19	230/460	1.9	72.0	11.10
3/4-0.55	3425	D71D	192044	301	A	15	230/460	2.4	74.0	9.45
	1700	D80D	192045	320	A	18	230/460	2.5	74.0	11.10
	1100	D80D	192046	504	A	22	230/460	2.7	72.0	11.10
1-0.75	3425	D80D	192054	332	A	21	230/460	2.8	75.5	11.10
	1700	D80D	192055	347	A	26	230/460	3.2	80.0	11.10
	1100	D90SD	192056	530	B	35	230/460	3.3	80.0	12.60
1 1/2-1.1	3425	D80D	192064	377	A	30	230/460	4.0	84.0	11.10
	1700	D90SD	192065	384	B	37	230/460	4.6	85.5	12.60
2-1.5	3425	D90SD	192074	418	B	33	230/460	5.2	85.5	12.60
	1700	D90LD	192075	430	B	38	230/460	5.8	84.0	12.60
	1100	DF100LD	193076	704	B	82	230/460	6.4	84.0	14.96
3-2.2	3425	D90LD	192084	592	B	39	230/460	7.2	86.5	12.60
	1750	DF100LD	193085	683	B	84	230/460	8.2	87.5	14.96
	1140	DF112MD	193086	964	B	100	230/460	9.6	87.5	15.75
4-3	3510	DF100LD	193094	724	B	71	230/460	10.0	87.5	14.96
	1750	DF100LD	193095	734	B	84	230/460	10.4	85.5	14.96
	1180	DF132SD	193096	1179	B	154	230/460	13.4	87.5	18.70
5 1/2-4	3510	DF112MD	193104	912	B	104	230/460	13.6	87.5	15.75
	1750	DF112MD	193105	883	B	104	230/460	15.0	87.5	15.75
	1180	DF132MD	193106	1343	B	176	230/460	17.6	87.5	20.28
7 1/2-5.5	3510	DF132SD	193114	1152	B	152	230/460	18.4	88.5	18.70
	1760	DF132SD	193115	1152	B	150	230/460	19.8	89.5	18.70
	1180	DF132MD	193116	1588	B	180	230/460	22.0	89.5	20.28
10-7.5	3510	DF132SD	193124	1230	B	163	230/460	24.0	89.5	18.70
	1760	DF132MD	193125	1348	B	174	230/460	26.2	89.5	20.28
	1180	DF160MD	193126	2140	C	251	230/460	27.2	89.5	23.62
15-11	3550	DF160MD	193134	2028	C	260	230/460	34.4	91.0	23.62
	1760	DF160MD	193135	2028	C	264	230/460	36.6	91.0	23.62
	1180	DF160LD	193136	2675	C	330	230/460	38.8	90.2	25.39

Note: Aluminum motors have removable feet for round-body applications.

**12-lead Delta windings (160MD frame and larger)
for across-the-line or wye-delta starts.**

THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
20-15	3550	DF160MD	193144	\$2187	C	269	230/460	47.0	91.0	23.62
	1760	DF160LD	193145	2307	C	311	230/460	47.6	91.7	25.39
	1180	DF180LD	193146	3508	C	385	230/460	51.4	90.2	27.95
25-18.5	3550	DF160LD	193154	2630	C	319	230/460	57.2	91.0	25.39
	1775	DF180MD	193155	2936	C	381	230/460	59.4	92.4	26.38
30-22	3550	DF180MD	193164	3144	C	355	230/460	68.0	91.0	26.38
	1775	DF180LD	193165	3262	C	427	230/460	71.0	93.0	27.95

Larger HP B3 Foot-Mounted metric motors on page 77 can be converted to B3/B5 Flange-Mount by installing B5 Flange Kits.



METRIC (IEC) B5 FLANGE KITS

Includes parts to convert a B3 rigid mount motor (page 73) to B5 flange mounting.

For Aluminum Frame Motors Only (192000 Series)

	63 Frame			71 Frame			80 Frame			90 Frame		
	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)
(B5) Flange	\$56	175850	1	\$67	175852	1	\$73	175854	2	\$76	175856	2

For Cast Iron Frame Motors Only (193000 Series)

These kits are for use only on IEC cast iron motors built after May, 2000. For information on kits for such motors built prior to May, 2000, contact LEESON.

	100 Frame			112 Frame			132 Frame			160 Frame			180 Frame		
	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)
(B5) Flange ^①	\$108	175882	13	\$116	175884	16	\$154	175886	20	\$290	175888	36	\$360	175890	43
(B5) Flange ^②	\$108	175984	13	\$116	175986	16	\$154	175988	20	\$290	175990	36	Use 175890		

	200 Frame			225 Frame		
	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)
(B5) ^② Flange	\$470	175994	58	\$601	175995	73

① Use with F2-mount motors – date code April 2002 and earlier.
② Use with F3-mount motors – date code May 2002 and later.

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

Catalog numbers in green are EPACT motors.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.



B3/B14 FACE-MOUNTED METRIC MOTORS • 230/460V

Metric-dimensioned, AC motors meeting North American performance standards, including 1.15 service factor and EPACT efficiencies. These motors have both B14 face mounting and B3 base.

Typically used for replacement on machine tools, textile machinery and other equipment with metric dimensions but requiring the heavy-duty torque and performance characteristics of motors designed for use in North America.

IP55 weatherproof enclosures, 60/50 Hz interchangeability (60Hz 230/460V & 50Hz 200/400V), dual stamped nameplates, CE mark, and F3 conduit box location.

Motors are available in one of two frame constructions: aluminum or cast iron. Aluminum frame models are designated with a 192000 series catalog number; cast iron models are 193000 series.



THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
1/4-0.18	3425	D63C	192017	\$235	A	10	230/460	0.8	72.0	8.55
	1700	D63C	192018	244	A	11	230/460	1.0	68.0	8.55
	1100	D71C	192019	425	A	12	230/460	1.2	64.0	9.46
1/3-0.25	3425	D63C	192027	275	A	11	230/460	1.1	72.0	8.55
	1700	D71C	192028	278	A	13	230/460	1.4	68.0	9.46
	1100	D80C	192029	458	A	17	230/460	1.3	70.0	11.11
1/2-0.37	3425	D71C	192037	279	A	13	230/460	1.6	74.0	9.46
	1700	D71C	192038	290	A	14	230/460	1.8	74.0	9.46
	1100	D80C	192039	474	A	19	230/460	1.9	72.0	11.11
3/4-0.55	3425	D71C	192047	295	A	15	230/460	2.4	74.0	9.46
	1700	D80C	192048	316	A	18	230/460	2.5	74.0	11.11
	1100	D80C	192049	504	A	22	230/460	2.7	72.0	11.11
1-0.75	3425	D80C	192057	323	A	21	230/460	2.8	75.5	11.11
	1700	D80C	192058	339	A	26	230/460	3.2	80.0	11.11
	1100	D90SC	192059	530	B	35	230/460	3.3	80.0	12.60
1 1/2-1.1	3425	D80C	192067	369	A	27	230/460	4.0	84.0	11.11
	1700	D90SC	192068	376	B	37	230/460	4.6	85.5	12.61
2-1.5	3425	D90SC	192077	410	B	33	230/460	5.2	85.5	12.61
	1700	D90LC	192078	418	B	38	230/460	5.8	84.0	12.61
	1100	DF100LC	193079	704	B	82	230/460	6.4	84.0	14.97
3-2.2	3425	D90LC	192087	592	B	39	230/460	7.2	86.5	12.61
	1750	DF100LC	193088	683	B	84	230/460	8.2	87.5	14.97
	1140	DF112MC	193089	964	B	84	230/460	9.6	87.5	15.76
4-3	3510	DF100LC	193097	724	B	71	230/460	10.0	87.5	14.97
	1750	DF100LC	193098	734	B	84	230/460	10.4	85.5	14.97
	1180	DF132SC	193099	1179	B	154	230/460	13.4	87.5	18.72
5 1/2-4	3510	DF112MC	193107	912	B	104	230/460	13.6	87.5	15.76
	1750	DF112MC	193108	883	B	104	230/460	15.0	87.5	15.76
	1180	DF132MC	193109	1343	B	176	230/460	17.6	87.5	20.29
7 1/2-5.5	3510	DF132SC	193117	1152	B	152	230/460	18.4	88.5	18.72
	1760	DF132SC	193118	1152	B	150	230/460	19.8	89.5	18.72
	1180	DF132MC	193119	1588	B	180	230/460	22.0	89.5	20.29
10-7.5	3510	DF132SC	193127	1230	B	163	230/460	24.0	89.5	18.72
	1760	DF132MC	193128	1348	B	174	230/460	26.2	89.5	20.29
	1180	DF160MC	193129	2140	C	251	230/460	27.2	89.5	23.64
15-11	3550	DF160MC	193137	2028	C	260	230/460	34.4	91.0	23.64
	1760	DF160MC	193138	2028	C	264	230/460	36.6	91.0	23.64
	1180	DF160LC	193139	2675	C	330	230/460	38.8	90.2	25.41

Note: Aluminum motors have removable feet for round-body applications.

**12-lead Delta windings (160MD frame and larger)
 for cross-the-line or wye-delta starts.**

THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 230V	% F.L. Eff.	"C" Dim. (Inches)
20-15	3550	DF160MC	193147	\$2318	C	269	230/460	47.0	91.0	23.64
	1760	DF160LC	193148	2445	C	311	230/460	47.6	91.7	25.41
25-18.5	3550	DF160LC	193157	2787	C	319	230/460	57.2	91.0	25.41

Larger HP B3 Foot-Mounted metric motors on page 77 can be converted to B3/B14 Flange-Mount by installing B14 Face Kits



METRIC (IEC) B14 FACE KITS

Includes parts to convert a B3 rigid mount motor (page 77) to B14 face mounting.

For Aluminum Frame Motors Only (192000 Series)

	63 Frame			71 Frame			80 Frame			90 Frame		
	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)
(B14) Face	\$52	175851	1	\$56	175853	1	\$65	175855	1	\$70	175857	1

For Cast Iron Frame Motors Only (193000 Series)

These kits are for use only on IEC cast iron motors built after May, 2000. For information on kits for such motors built prior to May, 2000, contact LEESON.

	100 Frame			112 Frame			132 Frame			160 Frame		
	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)
(B14) Face ^①	\$99	175883	8	\$108	175885	8	\$145	175887	12	\$280	175889	25
(B14) Face ^②	\$99	175985	8	\$108	175987	8	\$145	175989	12	\$280	175991	25

① Use with F2-mount motors – date code April 2002 and earlier.

② Use with F3-mount motors – date code May 2002 and later.

QUICK REFERENCE

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SHADED FRAME INDICATES CAST IRON CONSTRUCTION

Catalog numbers in green are EPACT motors.

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.

LEESON AC METRIC (IEC) MOTORS

THREE PHASE • RIGID BASE

B3 FOOT-MOUNTED METRIC MOTORS • 575 VOLT

Metric-dimensioned, AC motors meeting North American performance standards, including 1.15 service factor and EPACT efficiencies. For replacement use on machine tools, textile machinery and other equipment with metric dimensions but requiring the heavy-duty torque and performance characteristics of motors designed for use in North America.

IP55 weatherproof enclosures, stamped nameplates, CE mark, and F3 conduit box location. Kits are available for field conversion from B3 to B3/B5 or B3/B14. See pages 78 & 79 for details.

Motors are available in one of two frame constructions: aluminum or cast iron. Aluminum frame models are designated with a 192000 series catalog number; cast iron models are 193000 series.



THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 575V	% F.L. Eff.	"C" Dim. (in.)
1/4-0.18	3425	D63	192088	\$209	A	10	575	0.3	72.0	8.54
	1700	D63	192089	218	A	11	575	0.4	68.0	8.54
1/3-0.25	3425	D63	192097	244	A	11	575	0.4	74.0	8.54
	1700	D71	192098	254	A	13	575	0.6	67.0	9.45
1/2-0.37	3425	D71	192106	261	A	13	575	0.7	74.0	9.45
	1700	D71	192107	265	A	14	575	0.7	74.0	9.45
3/4-0.56	3425	D71	192115	272	A	15	575	0.9	74.0	9.45
	1700	D80	192116	287	A	18	575	1.0	73.0	11.10
1-0.75	3425	D80	192124	309	A	21	575	1.1	75.5	11.10
	1700	D80	192125	315	A	26	575	1.4	82.5	11.10
1 1/2-1.1	3425	D80	192133	342	B	27	575	1.6	82.5	11.10
	1700	D90S	192134	350	B	37	575	1.8	84.0	12.60
2-1.5	3425	D90S	192142	365	B	33	575	2.1	84.0	12.60
	1700	D90L	192143	377	B	38	575	2.4	84.0	12.60
3-2.2	3425	D90L	192148	789	B	39	575	2.9	85.8	12.60
	1750	DF100L	193193	594	B	84	575	3.5	87.5	14.96
4-3	3510	DF100L	193199	633	B	71	575	4.0	87.5	14.96
	1750	DF100L	193200	645	B	84	575	4.2	87.5	14.96
5 1/2-4	3510	DF112M	193208	814	B	104	575	5.0	87.5	15.75
	1750	DF112M	193209	785	B	104	575	5.4	87.5	15.75
7 1/2-5.5	3510	DF132S	193217	1021	B	152	575	7.2	88.5	18.70
	1760	DF132S	193218	1021	B	150	575	7.9	89.5	18.70
10-7.5	3510	DF132S	193226	1093	B	163	575	9.6	89.5	18.70
	1760	DF132M	193227	1211	B	174	575	10.5	89.5	20.28
15-11	3550	DF160M	193235	1769	C	260	575	13.8	90.2	23.62
	1760	DF160M	193236	1769	C	264	575	14.6	91.0	23.62

THREE PHASE • IP55 • 1.15 S.F.

HP-KW	RPM 60 Hz	IEC Frame	Catalog Number	List Price	Disc. Sym.	App. Wgt. (lbs.)	Voltage	F.L. Amps 575V	% F.L. Eff.	"C" Dim. (in.)
20-15	3550	DF160M	193244	\$2076	C	269	575	18.8	90.2	23.62
	1760	DF160L	193245	2188	C	311	575	19.0	91.0	25.39
25-18.5	3550	DF160L	193253	2527	C	319	575	22.9	91.0	25.39
	1775	DF180M	193254	2781	C	381	575	23.8	92.4	26.38
30-22	3550	DF180M	193262	3003	C	355	575	27.5	91.0	26.38
	1775	DF180L	193263	3125	C	427	575	28.4	92.4	27.95
40-30	3550	DF200L	193271	4275	C	522	575	38.4	91.7	30.51
	1775	DF200L	193272	4602	C	531	575	37.6	93.0	30.51
50-37	3550	DF200L	193280	5606	C	546	575	46.8	92.4	30.51
	1775	DF225S	193281	6384	C	632	575	47.2	93.0	33.26

METRIC (IEC) B5 FLANGE KITS

Includes parts to convert these B3 rigid mount motors to a B5 flange mounting. See kits on page 78.



METRIC (IEC) B14 FACE KITS

Includes parts to convert these B3 rigid mount motors to a B14 face mounting. See kits on page 79.



REDUCED DIAMETER METRIC FLANGES

Imported OEM equipment can often have a flange face that is different from its motor's frame size. LEESON now stocks metric (IEC) reduced diameter B14 flanges so you can put a 71 frame flange on an 80 frame motor for example. Flanges come pre-fitted with oil seals and have all the necessary hardware for easy field mounting.

Motor Frame	B14 Flange Frame	Catalogue Number	List Price
63	56	175900	\$48
71	63	175901	54
80	71	175902	62
90	80	175903	65



12-lead Delta windings (160MD frame and larger)
for across-the-line or wye-delta starts.

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

See page 310 for metric IEC Motor Dimensions

All three phase motors, 1 HP and above, are inverter rated. Refer to page 5 for speed ranges.