

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.

Note: A "true-metric" design, as pictured on this page, was adopted by LEESON for aluminum motors starting with March 2002 date codes and cast iron motors with May 2002 date codes. Cartons will be marked "F3" to indicate the 12:00 conduit box position. Contact LEESON for details and availability.



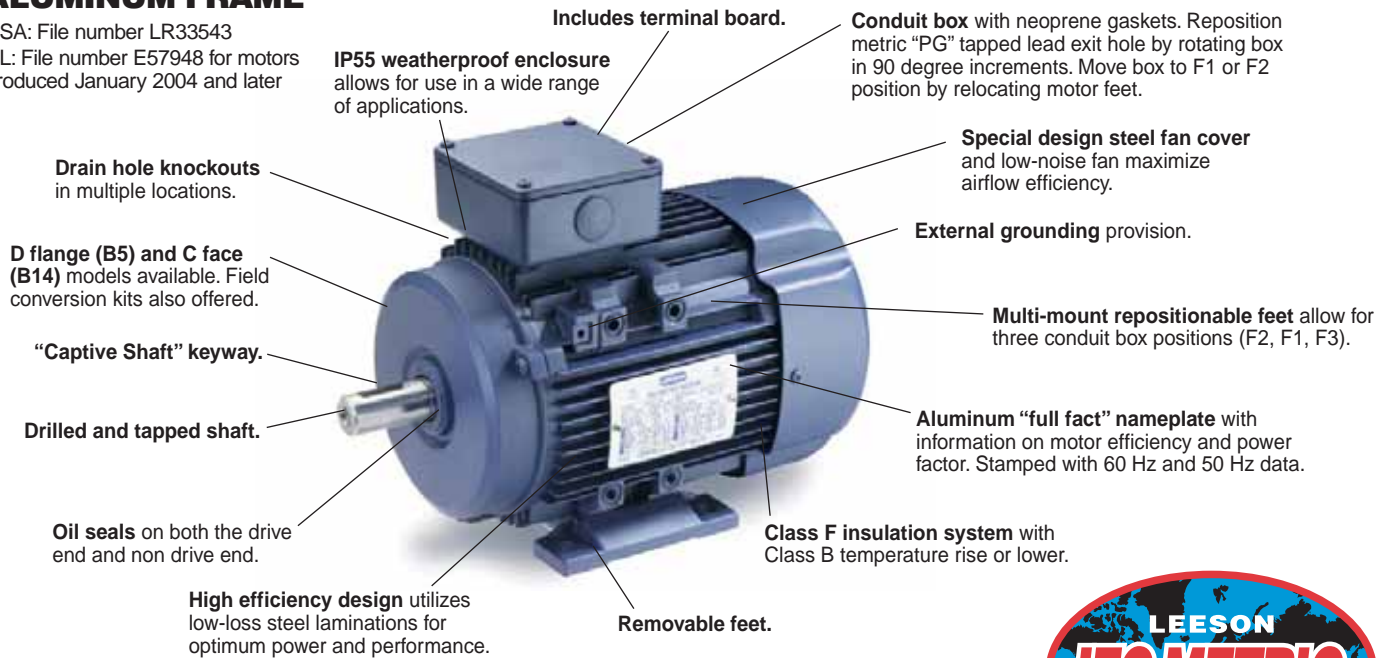
Both types are built to meet international standards and feature IP55 weatherproof enclosures, 60/50 Hz interchangeability (60Hz 230/460 V & 50Hz 200/400V), dual stamped nameplates, CE mark, and F3 conduit box location. Kits are available for field conversion from B3 to B3/B5 or B3/B14.

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



Drain hole knockouts in multiple locations.

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.

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

Includes terminal board.

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.

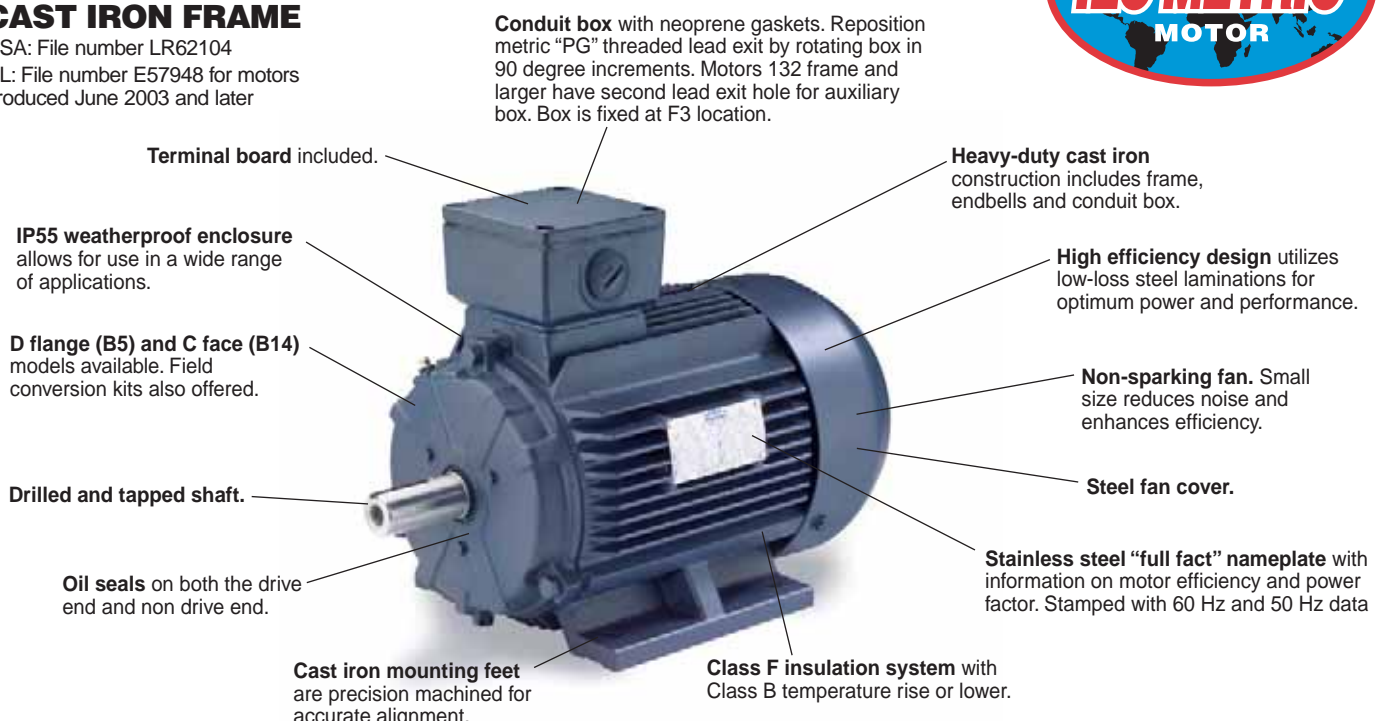
Class F insulation system with Class B temperature rise or lower.

Removable feet.



CAST IRON FRAME

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



Terminal board included.

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 71 and 72 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	\$136	A	10	230/460	0.8	72.0	8.55
	1700	D63	192011	142	A	11	230/460	1.1	68.0	8.55
	1100	D71	192012	243	A	12	230/460	1.2	64.0	9.16
1/3-0.25	3425	D63	192020	157	A	11	230/460	1.1	72.0	8.55
	1700	D71	192021	166	A	13	230/460	1.4	68.0	9.46
	1100	D80	192022	260	A	17	230/460	1.3	70.0	11.11
1/2-0.37	3425	D71	192030	170	A	13	230/460	1.6	74.0	9.46
	1700	D71	192031	174	A	14	230/460	1.8	74.0	9.46
	1100	D80	192032	271	A	19	230/460	1.9	72.0	11.11
3/4-0.55	3425	D71	192040	178	A	15	230/460	2.4	74.0	9.46
	1700	D80	192041	188	A	18	230/460	2.5	74.0	11.11
	1100	D80	192042	291	A	22	230/460	2.7	72.0	11.11
1-0.75	3425	D80	192050	202	A	21	230/460	2.8	75.5	11.11
	1700	D80	192051	205	A	26	230/460	3.2	80.0	11.11
	1100	D90S	192052	304	B	33	230/460	3.3	80.0	12.61
1 1/2-1.1	3425	D80	192060	224	B	27	230/460	4.0	84.0	11.11
	1700	D90S	192061	230	B	37	230/460	4.6	85.5	12.61
2-1.5	3425	D90S	192070	239	B	33	230/460	5.2	85.5	12.61
	1700	D90L	192071	247	B	38	230/460	5.8	84.0	12.61
	1100	DF100L	193072	378	B	82	230/460	6.4	84.0	14.97
3-2.2	3425	D90L	192080	344	B	39	230/460	7.2	86.5	12.61
	1750	DF100L	193081	366	B	84	230/460	8.2	87.5	14.97
	1140	DF112M	193082	534	B	100	230/460	9.6	87.5	15.76
4-3	3510	DF100L	193090	391	B	71	230/460	10.0	87.5	14.97
	1750	DF100L	193091	398	B	84	230/460	10.4	85.5	14.97
	1180	DF132S	193092	645	B	154	230/460	13.4	87.5	18.72
5 1/2-4	3510	DF112M	193100	504	B	104	230/460	13.6	87.5	15.76
	1750	DF112M	193101	485	B	104	230/460	15.0	87.5	15.76
	1180	DF132M	193102	746	B	176	230/460	17.6	87.5	20.29
7 1/2-5.5	3510	DF132S	193110	631	B	152	230/460	18.4	88.5	18.72
	1760	DF132S	193111	631	B	150	230/460	19.8	89.5	18.72
	1180	DF132M	193112	897	B	180	230/460	22.0	89.5	20.29
10-7.5	3510	DF132S	193120	676	B	163	230/460	24.0	89.5	18.72
	1760	DF132M	193121	749	B	174	230/460	26.2	89.5	20.29
	1180	DF160M	193122	1164	C	251	230/460	27.2	89.5	23.64
15-11	3550	DF160M	193130	1094	C	260	230/460	34.4	91.0	23.64
	1760	DF160M	193131	1094	C	264	230/460	36.6	91.0	23.64
	1180	DF160L	193132	1494	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	\$1284	C	269	230/460	47.0	91.0	23.64
	1760	DF160L	193141	1352	C	311	230/460	47.6	91.7	25.41
	1180	DF180L	193142	2095	C	385	230/460	51.4	90.2	27.97
25-18.5	3550	DF160L	193150	1563	C	319	230/460	57.2	91.0	25.41
	1775	DF180M	193151	1719	C	381	230/460	59.4	92.4	26.40
	1180	DF200L	193152	2983	C	517	230/460	64.0	91.7	30.54
30-22	3550	DF180M	193160	1856	C	355	230/460	68.8	91.0	26.40
	1775	DF180L	193161	1933	C	427	230/460	71.0	93.0	27.97
	1180	DF200L	193162	2977	C	467	230/460	76.0	91.7	30.54
40-30	3550	DF200L	193170	2643	C	522	230/460	94.0	91.7	30.54
	1775	DF200L	193171	2845	C	531	230/460	94.0	93.0	30.54
	1180	DF225M	193172	4472	C	633	230/460	100.0	93.0	33.29
50-37	3550	DF200L	193180	3465	C	546	230/460	117.0	92.4	30.54
	1775	DF225S	193181	3947	C	632	230/460	118.0	93.0	32.31
	1180	DF250M	193182	6268	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 71



METRIC (IEC) B14 FACE KITS

Includes parts to convert these B3 rigid mount motors to a B14 face mounting. See kits on page 72



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	\$29
71	63	175901	33
80	71	175902	37
90	80	175903	39



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

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

See Page 198 for metric IEC Motor Dimensions

Catalog numbers in green are EPACT motors.

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. Kits are available for field conversion from B3 to B3/B5 or B3/B14.

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	3430	D63D	192014	\$157	A	10	230/460	0.8	72.0	8.54
	1700	D63D	192015	162	A	11	230/460	1.0	68.0	8.54
	1120	D71D	192016	278	A	12	230/460	1.2	64.0	9.45
1/3-0.25	3430	D63D	192024	181	A	11	230/460	1.1	72.0	8.54
	1700	D71D	192025	187	A	13	230/460	1.4	68.0	9.45
	1130	D80D	192026	299	A	17	230/460	1.3	70.0	11.10
1/2-0.37	3410	D71D	192034	186	A	13	230/460	1.6	74.0	9.45
	1695	D71D	192035	193	A	14	230/460	1.8	74.0	9.45
	1130	D80D	192036	310	A	19	230/460	1.9	72.0	11.10
3/4-0.55	3400	D71D	192044	197	A	15	230/460	2.4	74.0	9.45
	1690	D80D	192045	210	A	18	230/460	2.5	74.0	11.10
	1130	D80D	192046	330	A	22	230/460	2.7	72.0	11.10
1-0.75	3390	D80D	192054	216	A	21	230/460	2.8	75.5	11.10
	1725	D80D	192055	227	A	26	230/460	3.2	80.0	11.10
	1150	D90SD	192056	346	B	35	230/460	3.3	80.0	12.60
1 1/2-1.1	3450	D80D	192064	247	A	30	230/460	4.0	84.0	11.10
	1740	D90SD	192065	251	B	37	230/460	4.6	85.5	12.60
2-1.5	3470	D90SD	192074	274	B	33	230/460	5.2	85.5	12.60
	1710	D90LD	192075	281	B	38	230/460	5.8	84.0	12.60
	1170	DF100LD	193076	435	B	82	230/460	6.4	84.0	14.96
3-2.2	3480	D90LD	192084	387	B	39	230/460	7.2	86.5	12.60
	1750	DF100LD	193085	422	B	84	230/460	8.2	87.5	14.96
	1200	DF112MD	193086	595	B	100	230/460	9.6	87.5	15.75
4-3	3495	DF100LD	193094	447	B	71	230/460	10.0	87.5	14.96
	1740	DF100LD	193095	454	B	84	230/460	10.4	85.5	14.96
	1180	DF132SD	193096	729	B	154	230/460	13.4	87.5	18.70
5 1/2-4	3520	DF112MD	193104	564	B	104	230/460	13.6	87.5	15.75
	1740	DF112MD	193105	547	B	104	230/460	15.0	87.5	15.75
	1180	DF132MD	193106	829	B	176	230/460	17.6	87.5	20.28
7 1/2-5.5	3525	DF132SD	193114	713	B	152	230/460	18.4	88.5	18.70
	1765	DF132SD	193115	713	B	150	230/460	19.8	89.5	18.70
	1175	DF132MD	193116	981	B	180	230/460	22.0	89.5	20.28
10-7.5	3510	DF132SD	193124	761	B	163	230/460	24.0	89.5	18.70
	1760	DF132MD	193125	833	B	174	230/460	26.2	89.5	20.28
	1175	DF160MD	193126	1324	C	251	230/460	27.2	89.5	23.62
15-11	3555	DF160MD	193134	1254	C	260	230/460	34.4	91.0	23.62
	1765	DF160MD	193135	1254	C	264	230/460	36.6	91.0	23.62
	1175	DF160LD	193136	1654	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	3545	DF160MD	193144	\$1434	C	269	230/460	47.0	91.0	23.62
	1765	DF160LD	193145	1512	C	311	230/460	47.6	91.7	25.39
	1180	DF180LD	193146	2299	C	385	230/460	51.4	90.2	27.95
25-18.5	3550	DF160LD	193154	1724	C	319	230/460	57.2	91.0	25.39
	1775	DF180MD	193155	1923	C	381	230/460	59.4	92.4	26.38
30-22	3550	DF180MD	193164	2061	C	355	230/460	68.0	91.0	26.38
	1775	DF180LD	193165	2138	C	427	230/460	71.0	93.0	27.95

B3 Foot-Mounted metric motors on page 70 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 70) 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	\$35	175850	1	\$40	175852	1	\$44	175854	2	\$47	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	\$62	175882	13	\$67	175884	16	\$89	175886	20	\$168	175888	36	\$208	175890	43
(B5) Flange ^②	\$62	175984	13	\$67	175986	16	\$89	175988	20	\$168	175990	36	Use 175890		
	200 Frame			225 Frame											
	List Price	Cat. No.	App. Wgt. (lbs.)	List Price	Cat. No.	App. Wgt. (lbs.)									
(B5) ^{①②} Flange	\$271	175994	58	\$347	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 blue are NEW items.
Catalog numbers in green are EPACT motors.**

LEESON AC METRIC (IEC) MOTORS

THREE PHASE • RIGID BASE WITH FACE

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. Kits are available for field conversion from B3 to B3/B5 or B3/B14.

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	\$154	A	10	230/460	0.8	72.0	8.55
	1700	D63C	192018	159	A	11	230/460	1.0	68.0	8.55
	1100	D71C	192019	278	A	12	230/460	1.2	64.0	9.46
1/3-0.25	3425	D63C	192027	179	A	11	230/460	1.1	72.0	8.55
	1700	D71C	192028	182	A	13	230/460	1.4	68.0	9.46
	1100	D80C	192029	299	A	17	230/460	1.3	70.0	11.11
1/2-0.37	3425	D71C	192037	183	A	13	230/460	1.6	74.0	9.46
	1700	D71C	192038	190	A	14	230/460	1.8	74.0	9.46
	1100	D80C	192039	310	A	19	230/460	1.9	72.0	11.11
3/4-0.55	3425	D71C	192047	193	A	15	230/460	2.4	74.0	9.46
	1700	D80C	192048	206	A	18	230/460	2.5	74.0	11.11
	1100	D80C	192049	330	A	22	230/460	2.7	72.0	11.11
1-0.75	3425	D80C	192057	212	A	21	230/460	2.8	75.5	11.11
	1700	D80C	192058	222	A	26	230/460	3.2	80.0	11.11
	1100	D90SC	192059	346	B	35	230/460	3.3	80.0	12.60
1 1/2-1.1	3425	D80C	192067	242	A	27	230/460	4.0	84.0	11.11
	1700	D90SC	192068	246	B	37	230/460	4.6	85.5	12.61
2-1.5	3425	D90SC	192077	268	B	33	230/460	5.2	85.5	12.61
	1700	D90LC	192078	274	B	38	230/460	5.8	84.0	12.61
	1100	DF100LC	193079	435	B	82	230/460	6.4	84.0	14.97
3-2.2	3425	D90LC	192087	387	B	39	230/460	7.2	86.5	12.61
	1750	DF100LC	193088	422	B	84	230/460	8.2	87.5	14.97
	1140	DF112MC	193089	595	B	84	230/460	9.6	87.5	15.76
4-3	3510	DF100LC	193097	447	B	71	230/460	10.0	87.5	14.97
	1750	DF100LC	193098	454	B	84	230/460	10.4	85.5	14.97
	1180	DF132SC	193099	729	B	154	230/460	13.4	87.5	18.72
5 1/2-4	3510	DF112MC	193107	564	B	104	230/460	13.6	87.5	15.76
	1750	DF112MC	193108	547	B	104	230/460	15.0	87.5	15.76
	1180	DF132MC	193109	829	B	176	230/460	17.6	87.5	20.29
7 1/2-5.5	3510	DF132SC	193117	713	B	152	230/460	18.4	88.5	18.72
	1760	DF132SC	193118	713	B	150	230/460	19.8	89.5	18.72
	1180	DF132MC	193119	981	B	180	230/460	22.0	89.5	20.29
10-7.5	3510	DF132SC	193127	761	B	163	230/460	24.0	89.5	18.72
	1760	DF132MC	193128	833	B	174	230/460	26.2	89.5	20.29
	1180	DF160MC	193129	1324	C	251	230/460	27.2	89.5	23.64
15-11	3550	DF160MC	193137	1254	C	260	230/460	34.4	91.0	23.64
	1760	DF160MC	193138	1254	C	264	230/460	36.6	91.0	23.64
	1180	DF160LC	193139	1654	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 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	DF160MC	193147	\$1434	C	269	230/460	47.0	91.0	23.64
	1760	DF160LC	193148	1512	C	311	230/460	47.6	91.7	25.41
25-18.5	3550	DF160LC	193157	1724	C	319	230/460	57.2	91.0	25.41

B3 Foot-Mounted metric motors on page 70 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 70) to B14 face mounting.



For Aluminum Frame Motors Only (192000 Series)

(B14) Face	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.)
\$31	175851	1	\$35	175853	1	\$39	175855	1	\$43	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.

(B14) Face	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.)
① \$57	175883	8	\$62	175885	8	\$83	175887	12	\$162	175889	25	
② \$57	175985	8	\$62	175987	8	\$83	175989	12	\$162	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

DC METRIC MOTORS	Page 77
50 HZ MOTORS	66
METRIC (IEC) MOTOR DIMENSIONS	196
METRIC (IEC) ENCLOSURE NOMENCLATURE	161

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

Catalog numbers in green are EPACT motors.

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 page 65 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	\$136	A	10	575	0.3	72.0	8.54
	1700	D63	192089	142	A	11	575	0.4	68.0	8.54
1/3-0.25	3425	D63	192097	159	A	11	575	0.4	74.0	8.54
	1700	D71	192098	166	A	13	575	0.6	67.0	9.45
1/2-0.37	3425	D71	192106	170	A	13	575	0.7	74.0	9.45
	1700	D71	192107	174	A	14	575	0.7	74.0	9.45
3/4-0.56	3425	D71	192115	178	A	15	575	0.9	74.0	9.45
	1700	D80	192116	188	A	18	575	1.0	73.0	11.10
1-0.75	3425	D80	192124	202	A	21	575	1.1	75.5	11.10
	1700	D80	192125	205	A	26	575	1.4	82.5	11.10
1 1/2-1.1	3425	D80	192133	224	B	27	575	1.6	82.5	11.10
	1700	D90S	192134	230	B	37	575	1.8	84.0	12.60
2-1.5	3425	D90S	192142	239	B	33	575	2.1	84.0	12.60
	1700	D90L	192143	247	B	38	575	2.4	84.0	12.60
3-2.2	3425	D90L	192148	516	B	39	575	2.9	85.8	12.60
	1750	DF100L	193193	366	B	84	575	3.5	87.5	14.96
4-3	3510	DF100L	193199	391	B	71	575	4.0	87.5	14.96
	1750	DF100L	193200	398	B	84	575	4.2	87.5	14.96
5 1/2-4	3510	DF112M	193208	504	B	104	575	5.0	87.5	15.75
	1750	DF112M	193209	485	B	104	575	5.4	87.5	15.75
7 1/2-5.5	3510	DF132S	193217	631	B	152	575	7.2	88.5	18.70
	1760	DF132S	193218	631	B	150	575	7.9	89.5	18.70
10-7.5	3510	DF132S	193226	676	B	163	575	9.6	89.5	18.70
	1760	DF132M	193227	749	B	174	575	10.5	89.5	20.28
15-11	3550	DF160M	193235	1094	C	260	575	13.8	90.2	23.62
	1760	DF160M	193236	1094	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	\$1284	C	269	575	18.8	90.2	23.62
	1760	DF160L	193245	1352	C	311	575	19.0	91.0	25.39
25-18.5	3550	DF160L	193253	1563	C	319	575	22.9	91.0	25.39
	1775	DF180M	193254	1719	C	381	575	23.8	92.4	26.38
30-22	3550	DF180M	193262	1856	C	355	575	27.5	91.0	26.38
	1775	DF180L	193263	1933	C	427	575	28.4	92.4	27.95
40-30	3550	DF200L	193271	2643	C	522	575	38.4	91.7	30.51
	1775	DF200L	193272	2845	C	531	575	37.6	93.0	30.51
50-37	3550	DF200L	193280	3465	C	546	575	46.8	92.4	30.51
	1775	DF225S	193281	3947	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 71



METRIC (IEC) B14 FACE KITS

Includes parts to convert these B3 rigid mount motors to a B14 face mounting. See kits on page 72



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	\$29
71	63	175901	33
80	71	175902	37
90	80	175903	39



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

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

See Page 196 for metric IEC Motor Dimensions