



FRACTIONAL HP

GENERAL PURPOSE

NEMA PREMIUM EFFICIENCY

CRUSHER® DUTY

IEC TRU-METRIC™

PUMP MOTORS

DEFINITE PURPOSE

ADD-ON™ MODIFICATIONS

MOTOR TECHNICAL DATA

DRIVES & SOFT STARTERS

CONTROLS



Tru-Metric™



IEC TRU-METRIC™ FRAME FEATURES AND LIST PRICES

– TEFC - Foot-Mount A-60–A-65

SHAFT

Made of ASTM 1045 carbon steel, it is thermally treated to minimize internal stress, to resist bending and fatigue caused by torsion and flexing.

ENDSHIELDS

Made of cast iron, with external fins for heat dissipation. They also have polished bearing housings for longer bearing life.

DRAIN PLUGS

Provided with automatic drain plug that quickly drains condensation

DOUBLE OIL LIP SEALS

In both endshields to protect bearings and motor from the aggressive components present in the environment. Frames 280 and above provided with V-ring.

FRAME

Made of aluminum or FC-200 cast iron, with external fins for maximum cooling effect. Removable feet on aluminum frame.

EYEBOLT

For easy handling, motors in 112 frames and larger are provided with an eyebolt. Footless motors are provided with two eyebolts.

ROTOR

Aluminum die cast into a magnetic steel lamination for low electric losses. Dynamically balanced for smooth operation, reduced vibration and noise.

NAMEPLATE

Dual Frequency (60/50Hz) stainless steel nameplate contains a complete and permanent record of all motor data.

WINDING

All copper winding wire enameled with class 'H' polyester varnish.

FAN COVER

Steel covers on 63 up to 132M frames and cast iron on frames 160M and up.

TERMINAL BOX

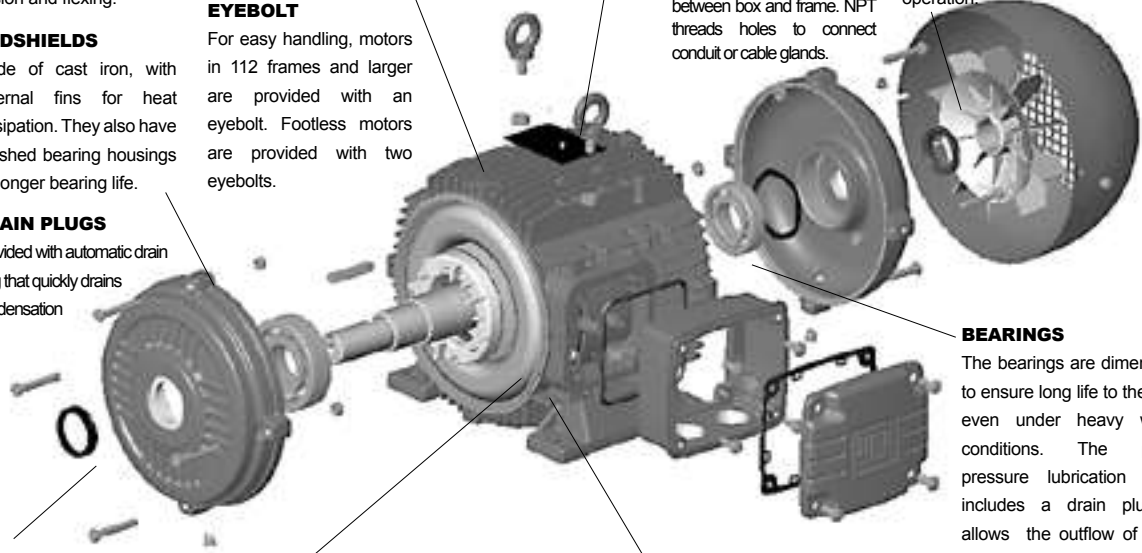
Oversized, cast iron construction. Gasketed lid and between box and frame. NPT threads holes to connect conduit or cable glands.

FAN

Made of rigid plastic from frames 63 up to 200L and aluminum from frames 225S/M up to 355M/L. Non sparking, non-toxic, resistant to environmental conditions, and ensures low noise operation.

BEARINGS

The bearings are dimensioned to ensure long life to the motor, even under heavy working conditions. The positive pressure lubrication system includes a drain plug that allows the outflow of excess grease on 160M frames up to 355M/L.



Tru-Metric™



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THREE-PHASE – REMOVABLE FEET AND RIGID BASE



This line is designed and built according to European IEC 34 and IEC 79 Standards. The enclosure TEFC (IP55) is ideal for indoor and outdoor applications. These motors are tested according to IEEE 112 std., method 'B' and their efficiency values are certified according to EPACT regulations (CC029A).



APPLICATIONS

- Blowers
- Compressors
- Pumps
- Conveyor
- Textiles
- Marine duty

STANDARD FEATURES

- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 60/50Hz
- Voltage: 230/460V (60Hz); 380-415V (50Hz)
- Aluminum frames with removable feet (63 up to 132M)
- Cast iron frames (63 up to 355M/L) with rigid base
- Squirrel cage rotor / Aluminum die cast
- Totally Enclosed Fan Cooled TEFC (IP55)
- Oil Seal on both endshields up to 250, V-ring for 280 and up.
- Class 'F' insulation
- Service Factor: 1.15 in 60Hz & 1.0 50Hz
- Temperature rise: Class 'B' (80°C)
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- Stainless steel nameplate on both aluminum and cast iron frames
- Finish painting: Synthetic enamel alkyd resin base
- Color: Dark Grey (RAL 7022)
- Grease relief system in frame 160M and above
- Drilled and tapped shaft
- Automatic drain plug
- Standard mounting: F2 (B3R) Also available in F1 (B3L) and F0 (B3T)
- Terminal block
- Class 1, Div 2, Groups B, C & D

OPTIONAL FEATURES

- Flanges
- Class 'H' insulation
- Taconite labyrinth seal
- Cable glands
- Space heaters
- Double shaft end
- Thermistor, Thermostats or RTD's (PT100)
- Drip cover (canopy) for shaft down applications
- Special painting plan for hostile environments
- Roller bearings on drive end

Note: Motors are tested according to IEEE 112 std. - method 'B' or C390 CSA. Energy efficiency motors verified by UL in addition to the DOE.



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TRU-METRIC™ FRAME – TEFC

EPACT CC# CC029A

Tru-Metric™



FOOT MOUNT

kW	HP	RPM 60Hz/50Hz	IEC Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	Voltage 60 Hz/ 50 Hz	Notes
0.18	0.25	3600 / 3000	63	.1836EP3EAL63	261	T1	11	0.48	68.0	230/460V // 380-415V	AL
		3600 / 3000	63	.1836EP3E63	261	T1	18	0.48	68.0	230/460V // 380-415V	◆
		1800 / 1500	63	.1818EP3EAL63	249	T1	13	0.51	69.0	230/460V // 380-415V	AL
		1800 / 1500	63	.1818EP3E63	249	T1	21	0.51	69.0	230/460V // 380-415V	◆
		1200 / 1000	71	.1812EP3EAL71	315	T1	16	0.77	61.0	230/460V // 380-415V	AL
		1200 / 1000	71	.1812EP3E71	315	T1	27	0.77	61.0	230/460V // 380-415V	◆
		900 / 750	80	.1809EP3EAL80	504	T1	22	0.80	50.5	230/460V // 380-415V	AL
		900 / 750	80	.1809EP3E80	504	T1	34	0.80	50.5	230/460V // 380-415V	◆
0.25	0.33	3600 / 3000	63	.2536EP3EAL63	267	T1	13	0.62	70.0	230/460V // 380-415V	AL
		3600 / 3000	63	.2536EP3E63	267	T1	18	0.62	70.0	230/460V // 380-415V	◆
		1800 / 1500	71	.2518EP3EAL71	263	T1	16	0.68	73.0	230/460V // 380-415V	AL
		1800 / 1500	71	.2518EP3E71	263	T1	27	0.68	73.0	230/460V // 380-415V	◆
		1200 / 1000	71	.2512EP3EAL71	339	T1	18	1.00	64.0	230/460V // 380-415V	AL
		1200 / 1000	71	.2512EP3E71	339	T1	29	1.00	64.0	230/460V // 380-415V	◆
		900 / 750	80	.2509EP3EAL80	544	T1	24	0.87	57.5	230/460V // 380-415V	AL
		900 / 750	80	.2509EP3E80	544	T1	36	0.87	57.5	230/460V // 380-415V	◆
0.37	0.5	3600 / 3000	71	.3736EP3EAL71	288	T1	15	0.83	73.0	230/460V // 380-415V	AL
		3600 / 3000	71	.3736EP3E71	288	T1	25	0.83	73.0	230/460V // 380-415V	◆
		1800 / 1500	71	.3718EP3EAL71	271	T1	16	1.06	73.0	230/460V // 380-415V	AL
		1800 / 1500	71	.3718EP3E71	271	T1	27	1.06	73.0	230/460V // 380-415V	◆
		1200 / 1000	80	.3712EP3EAL80	353	T1	21	1.07	64.0	230/460V // 380-415V	AL
		1200 / 1000	80	.3712EP3E80	353	T1	34	1.07	64.0	230/460V // 380-415V	◆
		900 / 750	90S	.3709EP3EAL90S	618	T1	36	1.35	61.5	230/460V // 380-415V	AL
		900 / 750	90S	.3709EP3E90S	618	T1	43	1.35	61.5	230/460V // 380-415V	◆
0.55	0.75	3600 / 3000	71	.5536EP3EAL71	295	T1	18	1.14	76.0	230/460V // 380-415V	AL
		3600 / 3000	71	.5536EP3E71	295	T1	27	1.14	76.0	230/460V // 380-415V	◆
		1800 / 1500	80	.5518EP3EAL80	311	T1	23	1.25	77.0	230/460V // 380-415V	AL
		1800 / 1500	80	.5518EP3E80	311	T1	34	1.25	77.0	230/460V // 380-415V	◆
		1200 / 1000	80	.5512EP3EAL80	378	T1	26	1.63	66.0	230/460V // 380-415V	AL
		1200 / 1000	80	.5512EP3E80	378	T1	38	1.63	66.0	230/460V // 380-415V	◆
		900 / 750	90L	.5509EP3EAL90L	650	T1	40	2.12	62.5	230/460V // 380-415V	AL
		900 / 750	90L	.5509EP3E90L	650	T1	49	2.12	62.5	230/460V // 380-415V	◆
0.75	1	3600 / 3000	80	.7536EP3EAL80	322	T1	23	1.42	79.0	230/460V // 380-415V	AL
		3600 / 3000	80	.7536EP3E80	322	T1	34	1.42	79.0	230/460V // 380-415V	◆
		1800 / 1500	80	.7518EP3EAL80	316	T1	26	1.51	80.0	230/460V // 380-415V	AL
		1800 / 1500	80	.7518EP3E80	316	T1	38	1.51	80.0	230/460V // 380-415V	◆
		1200 / 1000	90S	.7512EP3EAL90S	422	T1	34	1.71	80.0	230/460V // 380-415V	AL
		1200 / 1000	90S	.7512EP3E90S	422	T1	54	1.71	80.0	230/460V // 380-415V	◆
		900 / 750	100L	.7509EP3EAL100L	706	T1	52	2.31	74.0	230/460V // 380-415V	AL
		900 / 750	100L	.7509EP3E100L	706	T1	65	2.31	74.0	230/460V // 380-415V	◆

- ELECTRICAL FEATURES ON PAGE B-15-B-20.
- MECHANICAL FEATURES ON PAGE B-65-B-71.

AL = Aluminum Frame with removable feet
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Kw	HP	RPM 60Hz/50Hz	IEC Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	Voltage 60 Hz/ 50 Hz	Notes
1.1	1.5	3600 / 3000	80	00136EP3EAL80	345	T1	25	2.07	82.5	230/460V // 380-415V	AL
		3600 / 3000	80	00136EP3E80	345	T1	38	2.07	82.5	230/460V // 380-415V	◆
		1800 / 1500	90S	00118EP3EAL90S	382	T1	34	2.16	84.0	230/460V // 380-415V	AL
		1800 / 1500	90S	00118EP3E90S	382	T1	58	2.16	84.0	230/460V // 380-415V	◆
		1200 / 1000	90L	00112EP3EAL90L	606	T1	43	2.75	78.5	230/460V // 380-415V	AL
		1200 / 1000	90L	00112EP3E90L	606	T1	54	2.75	78.5	230/460V // 380-415V	◆
		900 / 750	100L	00109EP3EAL100L	716	T1	58	3.26	77.0	230/460V // 380-415V	AL
		900 / 750	100L	00109EP3E100L	716	T1	69	3.26	77.0	230/460V // 380-415V	◆
1.5	2	3600 / 3000	90S	00156EP3EAL90S	409	T1	35	2.70	84.0	230/460V // 380-415V	AL
		3600 / 3000	90S	00156EP3E90S	409	T1	47	2.70	84.0	230/460V // 380-415V	◆
		1800 / 1500	90L	00158EP3EAL90L	426	T1	43	2.99	84.0	230/460V // 380-415V	AL
		1800 / 1500	90L	00158EP3E90L	426	T1	56	2.99	84.0	230/460V // 380-415V	◆
		1200 / 1000	100L	00152EP3EAL100L	659	T1	69	3.73	81.5	230/460V // 380-415V	AL
		1200 / 1000	100L	00152EP3E100L	659	T1	76	3.73	81.5	230/460V // 380-415V	◆
		900 / 750	112M	00159EP3EAL112M	813	T1	66	4.08	82.5	230/460V // 380-415V	AL
		900 / 750	112M	00159EP3E112M	813	T1	108	4.08	82.5	230/460V // 380-415V	◆
2.2	3	3600 / 3000	90L	00236EP3EAL90L	614	T1	36	4.14	85.5	230/460V // 380-415V	AL
		3600 / 3000	90L	00236EP3E90L	614	T1	54	4.14	85.5	230/460V // 380-415V	◆
		1800 / 1500	100L	00218EP3EAL100L	512	T1	74	4.44	87.5	230/460V // 380-415V	AL
		1800 / 1500	100L	00218EP3E100L	512	T1	102	4.44	87.5	230/460V // 380-415V	◆
		1200 / 1000	112M	00212EP3EAL112M	908	T1	108	4.69	86.5	230/460V // 380-415V	AL
		1200 / 1000	112M	00212EP3E112M	908	T1	124	4.69	86.5	230/460V // 380-415V	◆
		900 / 750	132S	00209EP3EAL132S	1,147	T1	145	4.70	84.0	230/460V // 380-415V	AL
		900 / 750	132S	00209EP3E132S	1,147	T1	167	4.70	84.0	230/460V // 380-415V	◆
3	4	3600 / 3000	100L	00336EP3EAL100L	654	T1	58	5.21	84.0	230/460V // 380-415V	AL
		3600 / 3000	100L	00336EP3E100L	654	T1	76	5.21	84.0	230/460V // 380-415V	◆
		1800 / 1500	100L	00318EP3EAL100L	545	T1	74	5.89	87.5	230/460V // 380-415V	AL
		1800 / 1500	100L	00318EP3E100L	545	T1	102	5.89	87.5	230/460V // 380-415V	◆
		1200 / 1000	132S	00312EP3AL132S	971	T1	155	6.83	87.5	230/460V // 380-415V	AL
		1200 / 1000	132S	00312EP3132S	971	T1	161	6.83	87.5	230/460V // 380-415V	◆
		900 / 750	132M	00309EP3EAL132M	1,308	T1	167	6.40	84.0	230/460V // 380-415V	AL
		900 / 750	132M	00309EP3E132M	1,308	T1	185	6.40	84.0	230/460V // 380-415V	◆
4	5.5	3600 / 3000	112M	00436EP3EAL112M	710	T1	80	6.83	87.5	230/460V // 380-415V	AL
		3600 / 3000	112M	00436EP3E112M	710	T1	110	6.83	87.5	230/460V // 380-415V	◆
		1800 / 1500	112M	00418EP3EAL112M	551	T1	99	7.19	89.5	230/460V // 380-415V	AL
		1800 / 1500	112M	00418EP3E112M	551	T1	117	7.19	89.5	230/460V // 380-415V	◆
		1200 / 1000	132M	00412EP3EAL132M	1,018	T1	143	8.44	87.5	230/460V // 380-415V	AL
		1200 / 1000	132M	00412EP3E132M	1,018	T1	163	8.44	87.5	230/460V // 380-415V	◆
		900 / 750	160M	00409EP3E160M	1,582	T1	269	9.63	85.5	230/460V // 380-415V	

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TRU-METRIC™ FRAME TEFC

EPACT CC# CC029A

Tru-Metric™



FOOT MOUNT

Kw	HP	RPM 60Hz/50Hz	IEC Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	Voltage 60 Hz/ 50 Hz	Notes
5.5	7.5	3600 / 3000	132S	00536EP3EAL132S	929	T1	123	8.97	88.5	230/480V // 380-415V	AL
		3600 / 3000	132S	00536EP3E132S	929	T1	150	8.97	88.5	230/480V // 380-415V	◆
		1800 / 1500	132S	00518EP3EAL132S	757	T1	101	9.29	89.5	230/480V // 380-415V	AL
		1800 / 1500	132S	00518EP3E132S	757	T1	156	9.29	89.5	230/480V // 380-415V	◆
		1200 / 1000	132M	00512EP3EAL132M	1,405	T1	167	11.3	87.5	230/480V // 380-415V	AL
		1200 / 1000	132M	00512EP3E132M	1,405	T1	187	11.3	87.5	230/480V // 380-415V	◆
7.5	10	900 / 750	160M	00509EP3E160M	1,823	T1	304	13.5	85.5	230/480V // 380-415V	
		3600 / 3000	132S	00736EP3EAL132S	1,049	T1	123	12.4	89.5	230/480V // 380-415V	AL
		3600 / 3000	132S	00736EP3E132S	1,049	T1	163	12.4	89.5	230/480V // 380-415V	◆
		1800 / 1500	132M	00718EP3EAL132M	901	T1	161	12.7	89.5	230/480V // 380-415V	AL
		1800 / 1500	132M	00718EP3E132M	901	T1	189	12.7	89.5	230/480V // 380-415V	◆
11	15	1200 / 1000	160M	00712EP3E160M	1,831	T1	302	14.2	89.5	230/480V // 380-415V	
		900 / 750	160L	00709EP3E160L	2,254	T1	346	15.2	88.5	230/480V // 380-415V	
		3600 / 3000	160M	01136EP3E160M	1,670	T1	269	18.9	90.2	230/480V // 380-415V	
		1800 / 1500	160M	01118EP3E160M	1,371	T1	302	20.0	91.0	230/480V // 380-415V	
15	20	1200 / 1000	160L	01112EP3E160L	2,510	T1	326	21.6	90.2	230/480V // 380-415V	
		900 / 750	180L	01109EP3E180L	3,275	T1	444	20.3	89.5	230/480V // 380-415V	
		3600 / 3000	160 M	01518EP3E160M	1,916	T1	271	25.1	90.2	230/480V // 380-415V	
19	25	1800 / 1500	180 L	01518EP3E160L	1,682	T1	313	26.9	91.0	230/480V // 380-415V	
		1200 / 1000	180 L	01512EP3E180L	3,085	T1	499	23.5	92.0	230/480V // 380-415V	
		900 / 750	200 L	01509EP3E200L	4,191	T1	541	30.9	89.5	230/480V // 380-415V	
22	30	3600 / 3000	180 L	01836EP3E180L	2,323	T1	313	30.0	91.0	230/480V // 380-415V	
		1800 / 1500	180 M	01818EP3E180M	2,136	T1	426	31.8	92.4	230/480V // 380-415V	
		1200 / 1000	200 L	01812EP3E200L	3,881	T1	539	31.7	91.7	230/480V // 380-415V	
30	40	900 / 750	225 S/M	01809EP3E225S/M	4,925	T1	860	30.9	91.7	230/480V // 380-415V	
		3600 / 3000	180 M	02236EP3E180M	2,773	T1	437	35.7	91.0	230/480V // 380-415V	
		1800 / 1500	180 L	02218EP3E180L	2,561	T1	470	36.9	92.4	230/480V // 380-415V	
		1200 / 1000	200 L	02212EP3E200L	3,911	T1	607	37.4	92.4	230/480V // 380-415V	
37	50	900 / 750	225 S/M	02209EP3E225S/M	6,263	T1	915	37.4	92.4	230/480V // 380-415V	
		3600 / 3000	200 L	03036EP3E200L	3,673	T1	585	48.5	92.4	230/480V // 380-415V	
		1800 / 1500	200 L	03018EP3E200L	3,425	T1	574	51.2	93.0	230/480V // 380-415V	
37	50	1200 / 1000	225 S/M	03012EP3E225S/M	6,302	T1	917	50.6	93.0	230/480V // 380-415V	
		900 / 750	250 S/M	03009EP3E250S/M	7,391	T1	1125	50.6	93.0	230/480V // 380-415V	
		3600 / 3000	200 L	03736EP3E200L	4,358	T1	618	59.1	92.4	230/480V // 380-415V	
37	50	1800 / 1500	225 S/M	03718EP3E225S/M	5,547	T1	1003	58.1	93.0	230/480V // 380-415V	
		1200 / 1000	250 S/M	03712EP3E250S/M	8,154	T1	1147	60.9	93.0	230/480V // 380-415V	
		900 / 750	280 S/M	03709EP3E280S/M	9,805	T1	1565	64.4	92.4	230/480V // 380-415V	

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