



Cast Iron Model

APPLICATIONS

- Pumps
- Fans
- Kneader and mixer machines
- Cutter and sawing machines
- Pressing machines
- Industrial equipment
- Conveyors
- Blowers
- Compressors
- Machinery
- Cranes
- Packaging Equipment

OPTIONAL FEATURES

- Special voltages
- Specially designed shaft
- Thermistor, Thermostats or RTD's (PT100)
- Additional terminal box
- Cable glands
- 'C' and 'D' flanges for all ratings
- Roller bearings on drive end available for all frames
- Special epoxy painting

ODP – THREE PHASE FOOT MOUNT & FLANGE MOUNT

High Efficiency motors are designed to meet or exceed all EPAct requirements for energy efficiency as defined by the DOE. The efficiency values are certified according to the DOE's regulations (Certificate of Compliance number CC029A).

These Open Drip Proof (ODP) motors are designed for environments where dirt and moisture are minimal and provide maximum ventilation and heat dissipation. Design B torque and high efficiency design from 143T through 444/5T frames.

STANDARD FEATURES (Frame 143T and up)

- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, II, IV, VI and VIII pole, 60Hz
- Voltage: 208-230/460V, 200V, 460V or 575V
- 50/60Hz rated up to 250 HP (50Hz at 1.0 Service Factor)
- For 50Hz at 1.15 SF a higher HP should be selected
- Open Drip Proof (ODP)
- NEMA dimensions
- NEMA design 'B' ratings
- Service Factor : 1.15
- Class 'F' insulation for 143T & above
- Class 'B' insulation for 56 Frame
- Class 'H' impregnation resin
- Continuous Duty (S1)
- 104°F (40°C) ambient temperature
- Ball bearings are supplied as standard
- 1045 Carbon Steel Shaft for frames up to 365T.
- 4140 steel shaft for motors 404T and above. (3600 RPM motors supplied with 1045)
- F1 mount (also available flanged motors)
- Paint: Enamel alkyd resin base
- NPT threaded terminal box
- Stainless steel nameplate - laser etched
- MGI Part 31 rating for use with VFD - 4:1 constant torque speed range.



APPROVED BY



E 104590

APPROVED BY



LR 38324

SPECIFIC FEATURES

For Frames 143/5T only

- Welded steel plate frames (welded feet)
 - Cast iron endshields fixed with through bolt construction
 - ZZ bearing (double shielded)
 - Degree of protection: IP21
- 182/4T and 213/5T frames only
- Aluminum endshields and terminal box
 - Cooling system with finned rotor
 - ZZ Bearing (double shielded)
 - Degree of protection : IP21

For Frames 254/6T and up

- Cast iron frames
- Cast iron endshields and terminal box
- Cooling system with finned rotor
- Regreasable bearings positive pressure lubrication system (frame 254T and up)
- Degree of protection: IP23

* Please refer to page A-17 for standard features (frame 56).

* Design B torque rating on nameplate can be re-plated for Design C. All motors are tested according to IEEE 112 std. - method 'B' or C390 CSA . Energy efficiency motors verified by UL in addition to the DOE.

GENERAL PURPOSE MOTORS

ODP – THREE-PHASE MOTORS

EPACT CC# CC029A



List Price Multiplier .63

FOOT MOUNT

56 – 215T
Rolled Steel Frame

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
1/4	3600	56	.2536OS3EA56	201	F1B	20	0.60	58.0	10.315	208-230/460V	
	1800	56	.2518OS3EA56	204	F1B	21	0.57	62.0	10.315	208-230/460V	
	1200	56	.2512OS3EA56	254	F1B	21	0.80	56.0	10.315	208-230/460V	
1/3	3600	56	.3336OS3EA56	208	F1B	21	0.80	59.0	10.315	208-230/460V	
	1800	56	.3318OS3EA56	221	F1B	22	0.70	65.0	10.315	208-230/460V	
	1200	56	.3312OS3EA56	292	F1B	26	1.00	60.0	10.315	208-230/460V	
1/2	3600	56	.5036OS3EA56	221	F1B	23	1.05	61.0	10.315	208-230/460V	
	1800	56	.5018OS3EA56	253	F1B	24	1.00	67.0	10.315	208-230/460V	
	1200	56	.5012OS3EB56	304	F1B	31	2.30	63.5	11.103	208-230/460V	
3/4	3600	56	.7536OS3EB56	259	F1B	24	1.35	66.0	11.103	208-230/460V	
	1800	56	.7518OS3EB56	282	F1B	26	1.40	69.0	11.103	208-230/460V	
	1200	56	.7512OS3ED56	332	F1B	37	1.50	66.5	12.284	208-230/460V	
1	3600	56	00136OS3EB56	300	F1B	26	1.65	69.0	11.103	208-230/460V	
	1800	56	00118OS3EB56	299	F1B	29	1.75	71.0	11.103	208-230/460V	
	1800	143T	00118OP3E143T	341	W1B	36	1.41	82.5	12.086	208-230/460V	
	1800	143T	00118OP3E143TF3	341	W1B	36	1.41	82.5	12.086	208-230/460V	□
	1800	143T	00118OP3H143T	341	W1B	36	1.41	82.5	12.086	575V	
	1200	56	00112OS3EF56	394	F1B	42	1.80	70.1	13.465	208-230/460V	
	1200	145T	00112OP3E145T	423	W1B	40	1.73	80.0	12.086	208-230/460V	
1.5	3600	56	00156OS3ED56	320	F1B	31	2.37	71.2	12.284	208-230/460V	
	3600	143T	00156OP3E143T	361	W1B	32	1.95	82.5	12.086	208-230/460V	
	3600	143T	00156OP3H143T	361	W1B	32	1.95	82.5	12.086	575V	
	1800	56	00158OS3ED56	305	F1B	34	2.50	75.0	12.284	208-230/460V	
	1800	145T	00158OP3E145T	374	W1B	40	1.98	84.0	12.086	208-230/460V	
	1800	145T	00158OP3E145TF3	374	W1B	40	1.98	84.0	12.086	208-230/460V	□
	1800	145T	00158OP3H145T	374	W1B	40	1.98	84.0	12.086	575V	
	1200	182T	00152OP3E182T	511	W1B	53	2.28	84.0	13.504	208-230/460V	
2	3600	56	00236OS3ED56	365	F1B	34	2.85	75.0	12.284	208-230/460V	
	3600	145T	00236OP3E145T	405	W1B	43	2.52	84.0	12.086	208-230/460V	
	3600	145T	00236OP3H145T	405	W1B	43	2.52	84.0	12.086	575V	
	1800	56	00218OS3EF56	324	F1B	36	3.10	75.0	13.465	208-230/460V	
	1800	145T	00218OP3E145T	409	W1B	43	2.87	84.0	12.086	208-230/460V	
	1800	145T	00218OP3E145TF3	409	W1B	43	2.87	84.0	12.086	208-230/460V	□
	1800	145T	00218OP3H145T	409	W1B	43	2.87	84.0	12.086	575V	
	1200	184T	00212OP3E184T	519	W1B	69	2.98	85.5	14.291	208-230/460V	
3	3600	56	00336OS3EF56	405	F1B	39	4.05	77.0	13.465	208-230/460V	
	3600	145T	00336OP3E145T	450	W1B	49	3.65	84.0	12.086	208-230/460V	
	3600	145T	00336OP3H145T	450	W1B	49	3.65	84.0	12.086	575V	
	1800	182T	00318OP3E182T	416	W1B	56	3.94	86.5	13.504	208-230/460V	
	1800	182T	00318OP3E182TF3	416	W1B	56	3.94	86.5	13.504	208-230/460V	□
	1800	182T	00318OP3H182T	416	W1B	56	3.94	86.5	13.504	575V	
	1200	213T	00312OP3E213T	674	W1B	79	4.56	86.5	17.165	208-230/460V	

- ELECTRICAL FEATURES ON PAGE B-4, B-7.
- MECHANICAL FEATURES ON PAGE B-50, B-55, B-56.

□ = F3 Mount

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

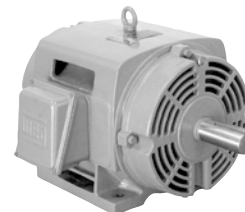
CONTROLS



GENERAL PURPOSE MOTORS

ODP THREE-PHASE MOTORS

EPACT CC# CC029A



254T-445T
Cast Iron Frame

List Price Multiplier .63

FOOT MOUNT

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
5	3600	182T	00536OP3E182T	540	W1B	57	61.7	85.5	13.504	208-230/460V	
	3600	182T	00536OP3H182T	540	W1B	57	61.7	85.5	13.504	575V	
	1800	184T	00518OP3E184T	521	W1B	69	6.39	87.5	14.291	208-230/460V	
	1800	184T	00518OP3E184TF3	521	W1B	69	6.39	87.5	14.291	208-230/460V	□
	1800	184T	00518OP3H184T	521	W1B	69	6.39	87.5	14.291	575V	
	1200	215T	00512OP3E215T	919	W1B	109	7.27	87.5	17.165	208-230/460V	
7.5	3600	184T	00736OP3E184T	696	W1B	69	8.97	87.5	13.511	208-230/460V	
	3600	184T	00736OP3H184T	696	W1B	69	8.97	87.5	13.511	575V	
	1800	213T	00718OP3E213T	736	W1B	85	9.40	88.5	17.165	208-230/460V	
	1800	213T	00718OP3E213TF3	736	W1B	85	9.40	88.5	17.165	208-230/460V	□
	1800	213T	00718OP3H213T	736	W1B	85	9.40	88.5	17.165	575V	
	1200	254T	00712OP3E254T	1,276	W1B	258	9.63	88.5	20.669	208-230/460V	
10	3600	213T	01036OP3E213T	901	W1B	108	11.8	88.5	17.165	208-230/460V	
	3600	213T	01036OP3H213T	901	W1B	108	11.8	88.5	17.165	575V	
	1800	215T	01018OP3E215T	899	W1B	109	12.7	89.5	17.165	208-230/460V	
	1800	215T	01018OP3E215TF3	899	W1B	109	12.7	89.5	17.165	208-230/460V	□
	1800	215T	01018OP3H215T	899	W1B	109	12.7	89.5	17.165	575V	
	1200	256T	01012OP3E256T	1,493	W1B	277	12.9	90.2	22.401	208-230/460V	
15	3600	215T	01536OP3E215T	1,232	W1B	139	17.1	89.5	17.165	208-230/460V	
	1800	254T	01518OP3E254T	1,231	W1B	247	18.7	91.0	20.669	208-230/460V	
	1800	254T	01518OP3E254TF3	1,231	W1B	247	18.7	91.0	20.669	208-230/460V	□
	1200	284T	01512OP3E284T	2,097	W1B	393	17.6	90.2	23.386	208-230/460V	
20	3600	254T	02036OP3E254T	1,469	W1B	205	24.6	90.2	20.669	208-230/460V	
	1800	256T	02018OP3E256T	1,526	W1B	277	25.2	91.0	22.401	208-230/460V	
	1800	256T	02018OP3E256TF3	1,526	W1B	277	25.2	91.0	22.401	208-230/460V	□
	1200	286T	02012OP3E286T	2,571	W1B	428	24.1	91.0	24.882	208-230/460V	
25	3600	256T	02536OP3E256T	1,783	W1B	251	29.3	91.0	22.401	208-230/460V	
	1800	284TS	02518OP3V284TS	1,799	W1B	311	30.1	91.7	23.386	200/400V	
	1800	284TS	02518OP3E284TS	1,799	W1B	311	30.1	91.7	22.000	208-230/460V	
	1800	284T	02518OP3E284T	1,799	W1B	311	30.1	91.7	23.386	208-230/460V	
	1800	284T	02518OP3E284TF3	1,799	W1B	311	30.1	91.7	23.386	208-230/460V	□
	1200	324T	02512OP3E324T	2,982	W1B	495	30.9	91.7	26.181	208-230/460V	
30	3600	284TS	03036OP3V284TS	2,033	W1B	373	34.0	92.4	22.000	200/400V	
	3600	284TS	03036OP3E284TS	2,033	W1B	373	34.0	92.4	22.000	208-230/460V	
	1800	286TS	03018OP3V286TS	2,108	W1B	397	35.6	92.4	24.882	200/400V	
	1800	286TS	03018OP3E286TS	2,108	W1B	397	35.6	92.4	23.504	208-230/460V	
	1800	286T	03018OP3E286T	2,108	W1B	397	35.6	92.4	24.882	208-230/460V	
	1800	286T	03018OP3E286TF3	2,108	W1B	397	35.6	92.4	24.882	208-230/460V	□
	1200	326T	03012OP3E326T	3,297	W1B	605	36.9	92.4	27.667	208-230/460V	

• ELECTRICAL FEATURES ON PAGE B-7.

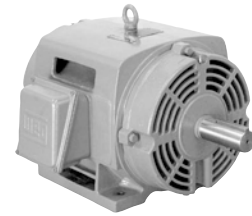
• MECHANICAL FEATURES ON PAGE B-55, B-56.

□ = F3 Mount

GENERAL PURPOSE MOTORS

ODP THREE-PHASE MOTORS

EPACT CC# CC029A



List Price Multiplier .63

FOOT MOUNT

254T-445T
Cast Iron Frame

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	Approx. Shipp. Weight Lbs	FL Amps 460V	FL Eff. %	"C" Dimension (in.)	Voltage	Notes
40	3600	286TS	04036OP3V286TS	2,757	W1B	457	44.8	92.4	23.504	200/400V	
	3600	286TS	04036OP3E286TS	2,757	W1B	457	44.8	92.4	23.504	208-230/460V	
	1800	324TS	04018OP3V324TS	2,652	W1B	495	48.2	93.0	26.181	200/400V	
	1800	324TS	04018OP3E324TS	2,652	W1B	495	48.2	93.0	26.181	208-230/460V	
	1800	324T	04018OP3E324T	2,652	W1B	495	48.2	93.0	26.181	208-230/460V	
	1200	364T	04012OP3E364T	4,698	W1B	838	48.2	93.0	29.764	208-230/460V	
50	3600	324TS	05036OP3V324TS	3,184	W1B	523	56.4	93.6	24.685	200/400V	
	3600	324TS	05036OP3E324TS	3,184	W1B	523	56.4	93.6	24.685	208-230/460V	
	1800	326TS	05018OP3V326TS	3,015	W1B	583	60.2	93.0	27.667	200/400V	
	1800	326TS	05018OP3E326TS	3,015	W1B	583	60.2	93.0	26.181	208-230/460V	
	1800	326TS	05018OP3G326TS	3,015	W1B	583	60.2	93.0	26.181	460V	
	1800	326T	05018OP3E326T	3,015	W1B	583	60.2	93.0	27.667	208-230/460V	
60	1200	365T	05012OP3E365T	5,417	W1B	935	59.4	93.0	29.764	208-230/460V	
	3600	326TS	06036OP3V326TS	4,008	W1B	609	70.6	93.0	26.181	200/400V	
	3600	326TS	06036OP3E326TS	4,008	W1B	609	70.6	93.0	26.181	208-230/460V	
	1800	364TS	06018OP3V364TS	3,703	W1B	743	70.2	93.6	27.638	200/400V	
	1800	364TS	06018OP3E364TS	3,703	W1B	743	70.2	93.6	27.638	208-230/460V	
	1800	364TS	06018OP3G364TS	3,703	W1B	743	70.2	93.6	27.638	460V	
75	1800	364T	06018OP3E364T	3,703	W1B	743	70.2	93.6	29.764	208-230/460V	
	1800	364T	06018OP3G364T	3,703	W1B	743	70.2	93.6	29.764	460V	
	1200	404T	06012OP3E404T	6,463	W1B	1037	71.0	93.6	34.133	208-230/460V	
	3600	364TS	07536OP3V364TS	5,074	W1B	805	80.6	94.1	27.638	200/400V	
	3600	364TS	07536OP3E364TS	5,074	W1B	805	80.6	94.1	27.638	208-230/460V	
	3600	364TS	07536OP3G364TS	5,074	W1B	805	80.6	94.1	27.638	460V	
100	1800	365TS	07518OP3V365TS	4,715	W1B	935	85.3	94.1	27.638	200/400V	
	1800	365TS	07518OP3E365TS	4,715	W1B	935	85.3	94.1	27.638	208-230/460V	
	1800	365TS	07518OP3G365TS	4,715	W1B	935	85.3	94.1	27.638	460V	
	1800	365T	07518OP3E365T	4,715	W1B	935	85.3	94.1	29.764	208-230/460V	
	1800	365T	07518OP3G365T	4,715	W1B	935	85.3	94.1	29.764	460V	
	1200	405T	07512OP3E405T	7,224	W1B	1207	87.8	93.6	34.133	208-230/460V	
125	3600	365TS	10036OP3V365TS	6,152	W1B	935	110	94.1	27.638	200/400V	
	3600	365TS	10036OP3E365TS	6,152	W1B	935	110	94.1	27.638	208-230/460V	
	3600	365TS	10036OP3G365TS	6,152	W1B	935	110	94.1	27.638	460V	
	1800	404TS	10018OP3V404TS	6,065	W1B	1037	115	94.1	31.141	200/400V	
	1800	404TS	10018OP3E404TS	6,065	W1B	1037	115	94.1	31.141	208-230/460V	
	1800	404TS	10018OP3G404TS	6,065	W1B	1037	115	94.1	31.141	460V	
150	1800	404T	10018OP3E404T	6,065	W1B	1037	115	94.1	34.133	208-230/460V	
	1800	404T	10018OP3G404T	6,065	W1B	1037	115	94.1	34.133	460V	
	1200	444T	10012OP3E444T	10,305	W1B	1662	125	94.1	39.803	208-230/460V	
	1200	444T	10012OP3G444T	10,305	W1B	1662	125	94.1	39.803	460V	
	3600	404TS	12536OP3G404TS	7,762	W1B	1086	132	94.1	31.141	460V	
	1800	405TS	12518OP3G405TS	6,651	W1B	1207	137	94.5	31.141	460V	
200	1800	405T	12518OP3G405T	6,651	W1B	1207	137	94.5	34.133	460V	
	1200	445T	12512OP3G445T	10,836	W1B	1916	150	94.1	39.803	460V	
	3600	405TS	15036OP3G405TS	10,042	W1B	1401	159	94.5	31.141	460V	
	1800	444TS	15018OP3G444TS	8,891	W1B	1411	165	95.0	36.062	460V	
	1800	444T	15018OP3G444T	8,891	W1B	1411	165	95.0	39.803	460V	
	1200	445T	15012OP3G445T	11,538	W1B	2183	183	94.5	39.803	460V	
250	3600	444TS	20036OP3G444TS	12,782	W1B	1713	217	94.5	36.062	460V	
	1800	445TS	20018OP3G445TS	10,837	W1B	1916	220	95.0	36.062	460V	
	1800	445T	20018OP3G445T	10,837	W1B	1916	220	95.0	39.803	460V	
	1200	447/9T	20012OP3G447/9T	20,127	W1B	2355	243	94.5	48.317	460V	
	3600	445TS	25036OP3G445TS	15,654	W1B	1982	266	95.0	36.062	460V	
	1800	445TS	25018OP3G445TS	13,358	W1B	2183	270	95.4	36.062	460V	
300	1800	445T	25018OP3G445T	13,358	W1B	2183	270	95.4	39.803	460V	
	1200	447/9T	25012OP3G447/9T	23,904	W1B	2576	300	95.4	48.317	460V	
	3600	445TS	30036OP3G445TS	19,556	W1B	2183	316	95.0	36.062	460V	
	1800	447/9T	30018OP3G447/9T	19,168	W1B	2145	325	95.4	48.317	460V	
	1200	447/9T	30012OP3G447/9T	26,188	W1B	2796	357	95.4	48.317	460V	
	3600	447/9TS	35036OP3G447/9TS	22,346	W1B	1969	377	95.0	44.567	460V	
350	1800	447/9T	35018OP3G447/9T	22,807	W1B	2465	384	95.4	48.317	460V	
	3600	447/9TS	40036OP3G447/9TS	24,140	W1B	2046	434	95.4	44.567	460V	
	1800	447/9T	40018OP3G447/9T	25,570	W1B	2686	443	95.4	48.317	460V	
	450	3600	447/9TS	26,055	W1B	2223	470	95.8	44.567	460V	
	500	3600	447/9TS	27,711	W1B	2289	539	95.8	44.567	460V	
	600	3600	447/9TS	28,951	W1B	2421	576	95.8	44.567	460V	

- ELECTRICAL FEATURES ON PAGE B-7.
- MECHANICAL FEATURES ON PAGE B-56.

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