

## 2015 Small Motor Legislation

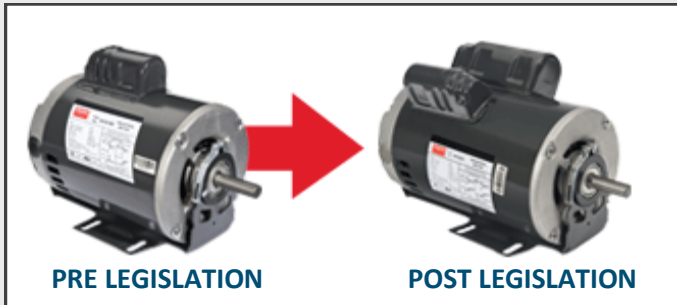
Enacted by the U.S. Department of Energy, the 2015 Small Motor Legislation requires motor manufacturers to stop producing motors that do not meet the new efficiency standards by March 2015. This legislation affects small general-purpose motors between 1/4HP–3HP, with an open construction and NEMA design.

### WHAT DOES THIS MEAN FOR YOU?


- **Increased Efficiency** - New motors have been designed to help reduce energy consumption and save you money!
- **Finding Your New Motor is Simple** - When you replace your existing, pre-legislation motor, you will be purchasing a different part number. The new motor will can fe found in the attached cross reference chart.
- **Limited Supply of Pre-Legislation Motors** - After March 2015, pre-legislation motors will no longer be produced, so supply will be limited after this time.

### BENEFITS OF NEW MOTORS

- The more efficient, cooler-running motor along with the Class H wire, Class F insulation material and Class F lead wires helps provide a longer-lasting motor.
- Increased winding size provides a cooler running motor, improves efficiency, extends bearing life and reduces motor insulation degradation.
- High-grade electrical steel reduces energy losses and improves efficiency.
- Run capacitor provides winding with increased energy to help improve efficiency.
- Tighter machining tolerance between the stator rotor reduces magnetic flux losses.
- Lower-resistance rotors with a special slot design and higher-grade aluminum bars help improve performance and efficiency.
- Some motors may be longer and include an additional capacitor (cap start/cap run) to increase efficiency.



Size HP	RPM's	Typical Pre-Regulated Efficiency	3/15/2015 Efficiency	4000 Hours per year Annual Operating Cost		Operating Savings
				Pre-Regulated	2015 Regulation	
1/4	3450	52.6	66.6	\$141.83	\$112.01	\$29.81
	1725	56.1	68.5	\$140.49	\$108.91	\$31.58
	1140	55.0	62.2	\$135.64	\$119.36	\$16.28
1/3	3450	59.3	70.5	\$166.06	\$139.68	\$26.38
	1725	61.4	72.4	\$160.38	\$136.01	\$24.37
	1140	60.3	66.6	\$163.30	\$147.86	\$15.45
1/2	3450	67.2	72.4	\$222.02	\$206.08	\$15.95
	1725	63.3	76.2	\$235.70	\$195.80	\$39.90
	1140	66.1	76.2	\$225.72	\$195.80	\$29.92
3/4	3450	72.2	76.2	\$309.97	\$293.70	\$16.27
	1725	67.9	81.8	\$329.60	\$273.59	\$56.01
	1140	70.6	80.2	\$317.00	\$279.05	\$37.94
1	3450	74.4	80.4	\$401.08	\$371.14	\$29.93
	1725	70.9	82.6	\$420.87	\$361.26	\$59.62
	1140	72.0	81.1	\$414.44	\$367.94	\$46.50
1 1/2	3450	76.7	81.5	\$583.57	\$549.20	\$34.37
	1725	74.0	83.8	\$604.86	\$534.13	\$70.74
2	3450	74.4	82.9	\$806.49	\$719.90	\$86.58
	1725	70.9	84.5	\$765.13	\$706.27	\$58.86
3	3450	78.2	84.1	\$1,144.76	\$1,064.45	\$80.31

 **LOOK FOR THIS ICON** that indicates a legislation-compliant motor when you search for your pre-legislation motor on Zoro.com

**FOR MORE INFORMATION ABOUT THE 2015 SMALL MOTOR LEGISLATION**– Visit the US Department of Energy’s website: [http://www1.eere.energy.gov/buildings/appliance\\_standards/product.aspx/productid/40](http://www1.eere.energy.gov/buildings/appliance_standards/product.aspx/productid/40)



Information sources include US DOE, W.W. Grainger, Dayton

If you are still having difficulty choosing a new motor, please contact us at askzoro@zoro.com or 855-289-9676

**Product Compliance and Suitability.**

THE PRODUCT STATEMENTS CONTAINED IN THIS EZTIP ARE INTENDED FOR GENERAL INFORMATIONAL PURPOSES ONLY. SUCH PRODUCT STATEMENTS DO NOT CONSTITUTE A PRODUCT RECOMMENDATION OR REPRESENTATION AS TO THE APPROPRIATENESS, ACCURACY, COMPLETENESS, CORRECTNESS OR CURRENTNESS OF THE INFORMATION PROVIDED. INFORMATION PROVIDED IN THIS EZ TIP DOES NOT REPLACE THE USE BY YOU OF ANY MANUFACTURER INSTRUCTIONS, TECHNICAL PRODUCT MANUAL OR OTHER PROFESSIONAL RESOURCE OR ADVISER AVAILABLE TO YOU. ALWAYS READ, UNDERSTAND, AND FOLLOW ALL MANUFACTURER INSTRUCTIONS.

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# 2015 Small Motor Legislation - Zoro Cross Reference Chart

Enacted by the U.S. Department of Energy, the 2015 Small Motor Legislation requires motor manufacturers to stop producing motors that do not meet the new efficiency standards by March 2015. This legislation affects small general-purpose motors between 1/4HP–3HP, with an open construction and NEMA design.



**Look for this icon designating the new energy efficient motors**

Current Zoro #	Description	New Zoro #	Description - 2015 Compliant Motors
G4188116	Mtr,3 Ph,1/2hp,1750,208-230/460,Eff 74.0	G9096175	3Ph,1/2HP,1765,208-230/460,78.2
G4089976	Mtr,3 Ph,3/4hp,1750,208-230/460,Eff 79.5	G9096202	3Ph,3/4HP,1760,208-230/460,81.1
G2856314	GP Mtr,CS,ODP,2 HP,1725 rpm,56H	G9096954	MTR,CS/CR,ODP,2 HP,1725,56H,EFF 84.5
G1541671	GP Mtr,CS,ODP,1-1/2 HP,1740 rpm,56C	G9090514	MTR,CS/CR,ODP,1-1/2HP,1725,56C,EFF 83.8
G0750477	GP Mtr,CS,ODP,3/4 HP,1725 rpm,56C	G9097155	MTR,CS/CR,ODP,3/4 HP,1725,56C,EFF 81.8
G2341026	Mtr,3 Ph,1/3hp,1725,208-230/460,Eff 68.2	G9049004	3 Ph,1/3,1725,208-230/460,56,EFF 73.4
G2823624	Mtr,3 Ph,1/3hp,1140,208-230/460,Eff 62.0	G8571254	MTR,3 Ph,1/3hp,1140,208-230/460,EFF 71.4
G2934522	Mtr,3 Ph,1/2hp,1140,208-230/460,Eff 68.0	G8571263	MTR,3 Ph,1/2hp,1140,208-230/460,EFF 75.3
G2344867	GP Mtr,CS,ODP,1/2 HP,1725 rpm,56	G9009472	MTR,CS/CR, ODP,1/2 HP,1725,56,EFF 76.2
G1441255	GP Mtr,CS,ODP,1/4 HP,1725 rpm,56	G9078833	GP Mtr,CS/CR,ODP,1/4 HP,1725,56,EFF 68.5
G1410105	Mtr,3 Ph,1 HP,1725,208-230/460V,Eff 78.4	G9053064	MTR,3Ph,1HP,1725,208-230/460V,EFF 83.5
G1355347	Mtr,3 Ph,3/4hp,1725,208-230/460,Eff 76.5	G9053073	MTR,3Ph,3/4hp,1725,208-230/460,EFF 81.1
G1598466	Mtr,3 Ph,1 HP,1725,208-230/460V,Eff 77.0	G9053082	MTR,3Ph,1 HP,1725,208-230/460V,EFF 83.5
G0606697	Mtr,3 Ph,1 HP,3450,208-230/460V,Eff 78.0	G9090776	Mtr,3 Ph,1 HP,3450,208-230/460,Eff 77.0
G2159017	Mtr,3 Ph,1.5hp,3450,208-230/460,Eff 75.5	G9090785	Mtr,3 Ph,1.5hp,3450,208-230/460,Eff 84.0
G1674635	Mtr,3 Ph,3/4hp,1725,208-230/460,Eff 75.5	G9053091	Mtr,3 Ph,3/4hp,1725,208-230/460,EFF 81.1
G2861573	Mtr,3 Ph,1 HP,1725,208-230/460V,Eff 76.5	G9053107	Mtr,3 Ph,1 HP,1725,208-230/460V,EFF 83.5
G3405577	Mtr,3 Ph,1.5hp,1725,208-230/460,Eff 80.0	G9053116	Mtr,3 Ph,1.5hp,1725,208-230/460,EFF 86.5
G1532894	GP Mtr,CS,ODP,2 HP,1740 rpm,56H	G9096963	MTR,CS/CR,ODP,2 HP,1725,56H,EFF 84.5
G1144263	GP Mtr,CS,ODP,1 HP,3450 rpm,56	G9097191	MTR,CS/CR,ODP,1 HP,3450,56,EFF 80.4
G0645416	GP Mtr,CS,ODP,1/2 HP,3450 rpm,48	G9077476	MTR,CS/CR,ODP,1/2HP,3450,48,EFF 72.4
G0664921	GP Mtr,CS,ODP,1/3 HP,1725 rpm,56	G9009436	MTR,CS/CR, ODP,1/3 HP,1725,56,EFF 72.4
G3205133	GP Mtr,CS,ODP,1/2 HP,1725 rpm,56	G9078851	GP Mtr,CS/CR,ODP,1/2 HP,1725,56,EFF 76.2
G2034067	GP Mtr,CS,ODP,1/2 HP,1725 rpm,56	G9090602	MTR,CS/CR, ODP,1/2 HP,1725,56,EFF 76.2
G1702942	GP Mtr,CS,ODP,3/4 HP,1725 rpm,56	G9096972	MTR,CS/CR,ODP,3/4 HP,1725,56,EFF 81.8
G0766342	GP Mtr,CS,ODP,3/4 HP,1725 rpm,56	G8565243	MTR,CS/CR, ODP,3/4 HP,1725,56,EFF 81.8
G2368825	GP Mtr,CS,ODP,3/4 HP,3450 rpm,56	G9009515	MTR,CS/CR,ODP,3/4 HP,3450,56,EFF 76.2
G1458694	Mtr,1 HP,3450RPM, 115/230V	G8565261	MTR,CS/CR,ODP,1 HP,3450RPM,56,EFF 80.4
G0418984	GP Mtr,CS,ODP,1-1/2 HP,3450 rpm,56	G9090751	MTR,CS/CR,ODP,1-1/2 HP,3450,56,EFF 81.5
G0956304	GP Mtr,CS,ODP,1/3 HP,1735 rpm,56C	G9009411	MTR,CS/CR,ODP,1/3 HP,1725, 56C,EFF 72.4
G1989452	GP Mtr,CS,ODP,1/2 HP,1735 rpm,56C	G9090523	MTR,CS/CR,ODP,1/2 HP,1725,56C,EFF 76.2
G2459922	GP Mtr,CS,ODP,1/3 HP,1725 rpm,56	G9078867	GP Mtr,CS/CR,ODP,1/3 HP,1725,56,EFF 72.4
G0383634	GP Mtr,CS,ODP,1/2 HP,1725 rpm,56	G9078876	GP Mtr,CS/CR,ODP,1/2 HP,1725,56,EFF 76.2
G2915726	GP Mtr,CS,ODP,3/4 HP,1725 rpm,56	G9096981	MTR,CS/CR,ODP,3/4 HP,1725,56,EFF 81.8
G2134806	GP Mtr,CS,ODP,1/3 HP,1140 rpm,56	G9097207	MTR,CS/CR,ODP,1/3 HP,1140 ,56,EFF 66.6
G0282877	GP Mtr,CS,ODP,1/3 HP,1730 rpm,56C	G8565164	MTR,CS/CR,ODP,1/3 HP,1725,56C,EFF 72.4
G0635257	GP Mtr,CS,ODP,1/2 HP,1725 rpm,56C	G8565173	MTR,CS/CR,ODP,1/2 HP,1725,56C,EFF 76.2
G2179064	GP Mtr,CS,ODP,3/4 HP,1740 rpm,56C	G9009402	MTR,CS/CR,ODP,3/4 HP,1725,56C,EFF 81.8
G2215762	GP Mtr,CS,ODP,1/4 HP,1140 rpm,56	G9078955	GP Mtr,CS/CR,ODP,1/4 HP,1140,56,EFF 62.2
G3210952	GP Mtr,CS,ODP,1/3 HP,1725 rpm,56	G9090566	MTR,CS/CR, ODP,1/3 HP,1725,56,EFF 72.4
G2441117	GP Mtr,CS,ODP,3/4 HP,1725 rpm,56	G9096997	MTR,CS/CR,ODP,3/4 HP,1725,56,EFF 81.8
G2248671	GP Mtr,CS,ODP,1/3 HP,1725 rpm,56	G9078885	GP Mtr,CS/CR,ODP,1/3 HP,1725,56,EFF 72.4
G0801613	GP Mtr,CS,ODP,1/2 HP,1140 rpm,56	G9097216	MTR,CS/CR,ODP,1/2 HP,1140 ,56,EFF 76.2

Current Zoro #	Description	New Zoro #	Description - 2015 Compliant Motors
G1848077	GP Mtr,CS,ODP,1 HP,1725 rpm,56C	G9097164	MTR,CS/CR,ODP,1 HP,1725,56C,EFF 82.6
G2027085	GP Mtr,CS,ODP,1/2 HP,3450 rpm,48	G9077485	GP Mtr,CSCR,ODP,1/2 HP,3450,48,EFF 72.4
G0405483	GP Mtr,CS,ODP,3/4 HP,3450 rpm,48	G9077494	GP Mtr,CSCR,ODP,3/4 HP,3450,48,EFF 76.2
G2651537	GP Mtr,CS,ODP,1/2 HP,1725 rpm,56	G9078894	GP Mtr,CS/CR,ODP,1/2 HP,1725,56,EFF 76.2
G3421503	GP Mtr,CSCR,ODP,1 HP,1725 rpm,56H	G9097006	MTR,CS/CR,ODP,1 HP,1725,56H,EFF 82.6
G0485685	GP Mtr,CS,ODP,1 HP,1725 rpm,56	G9009497	MTR,CS/CR,ODP,1 HP,1725 RPM,56,EFF 82.6
G2438475	GP Mtr,CS,ODP,1-1/2 HP,1725 rpm,56H	G9097015	MTR,CS/CR,ODP,1-1/2 HP,1725,56H,EFF 83.8
G0945095	GP Mtr,CS,ODP,1/2 HP,1725 rpm,48	G9077503	GP Mtr,CSCR,ODP,1/2 HP,1725,48,EFF 76.2
G3070846	GP Mtr,CS,ODP,1/4 HP,1725 rpm,48Z	G8565216	MTR,CS/CR,ODP,1/4 HP,1725,48Z,EFF 68.5
G2925991	Mtr,3/4HP,1725RPM, 115/230V	G9090672	GP Mtr,CS/CR,ODP,3/4HP,1140,56,EFF 80.2
G1749212	GP Mtr,CS,ODP,3/4 HP,3450 rpm,48	G9077537	GP Mtr,CSCR,ODP,3/4 HP,3450,48,EFF 76.2
G1398467	GP Mtr,CS,ODP,1/3 HP,1725 rpm,56C	G9078912	GP Mtr,CS/CR,ODP,1/3HP,1725,56C,EFF 72.4
G2160277	GP Mtr,CS,ODP,1 HP,1725 rpm,56H	G9097051	MTR,CS/CR,ODP,1 HP,1725,56H,EFF 82.6
G2884384	GP Mtr,CS,ODP,1-1/2 HP,1725 rpm,56	G9090697	MTR,CS/CR,ODP,1-1/2 HP,1725,56,EFF 83.8
G2706837	GP Mtr,CS,ODP,1/2 HP,1725 rpm,48	G9077546	GP Mtr,CSCR,ODP,1/2 HP,1725,48,EFF 76.2
G2589361	GP Mtr,CS,ODP,1 HP,3450 rpm,56	G9097277	MTR,CS/CR,ODP,1HP,3450 ,56,EFF 80.4
G1384171	GP Mtr,CS,ODP,1/3 HP,1725 rpm,48	G9077555	GP Mtr,CSCR,ODP,1/3 HP,1725,48,EFF 72.4
G2310427	GP Mtr,CS,ODP,1-1/2 HP,1725 rpm,56HZ	G9097076	MTR,CS/CR,ODP,1-1/2HP,1725,56HZ,EFF 83.8
G1869427	GP Mtr,CS,ODP,1-1/2 HP,1725 rpm,56H	G9097085	MTR,CS/CR,ODP,1-1/2 HP,1725,56H,EFF 83.8
G0612507	GP Mtr,CS,ODP,1 HP,1725 rpm,56	G8565277	MTR,CS/CR,ODP,1 HP,1725 RPM,56,EFF 82.6
G1867494	GP Mtr,CS,ODP,1-1/2 HP,1725 rpm,56	G9090706	MTR,CS/CR,ODP,1-1/2HP,1725,56H,EFF 83.8
G0485003	Mtr,1/2HP,3450RPM, 115/230V	G9090593	MTR,CS/CR, ODP,1/2HP, 3450,56,EFF 72.4
G2898822	GP Mtr,CS,ODP,1 HP,3450 rpm,56	G8565252	MTR,CS/CR,ODP,1 HP,3450RPM,56,EFF 80.4
G2824647	GP Mtr,CS,ODP,1/2 HP,3450 rpm,48	G9077564	GP Mtr,CSCR,ODP,1/2 HP,3450,48,EFF 72.4
G2830685	GP Mtr,CS,ODP,1-1/2 HP,3450 rpm,56	G9009506	MTR,CS/CR,ODP,1-1/2 HP,3450,56,EFF 81.5
G0623524	GP Mtr,CS,ODP,1/3 HP,1725 rpm,56	G9009445	MTR,CS/CR, ODP,1/3 HP,1725,56,EFF 72.4
G3498616	GP Mtr,CS,ODP,3/4 HP,1725 rpm,56	G9009481	MTR,CS/CR, ODP,3/4 HP,1725,56,EFF 81.8
G1427176	GP Mtr,CS,ODP,1 HP,3450 rpm,56	G9097286	MTR,CS/CR,ODP,1HP,3450 ,56,EFF 80.4
G1940924	GP Mtr,CS,ODP,2 HP,1725 rpm,56HZ	G9097094	MTR,CS/CR,ODP,2 HP,1725,56HZ,EFF 84.5
G1901033	GP Mtr,CS,ODP,1/4 HP,1725/1425 rpm,48Z	G8565182	MTR,CS/CR,ODP,1/4HP,1725,48Z,EFF 68.5
G1050734	GP Mtr,CS,ODP,1/3 HP,1725 rpm,48Z	G9009454	MTR,CS/CR,ODP,1/3 HP,1725,48Z,EFF 72.4
G2162781	GP Mtr,CS,ODP,1/3 HP,1725 rpm,48Z	G9009463	MTR,CS/CR,ODP,1/3 HP,1725,48Z,EFF 72.4
G0493534	GP Mtr,CS,ODP,3/4 HP,1140 rpm,56H	G9097304	MTR,CS/CR,ODP,3/4 HP,1140 ,56H,EFF 80.2
G2476774	GP Mtr,CS,ODP,1/2 HP,1725 rpm,48Z	G9090611	MTR,CS/CR,ODP,1/2 HP,1725,48Z,EFF 76.2
G1789697	GP Mtr,CS,ODP,1/2 HP,1725 rpm,48Z	G8565234	MTR,CS/CR,ODP,1/2 HP,1725,48Z,EFF 76.2
G2372072	GP Mtr,CS,ODP,1/4 HP,1725 rpm,48	G9077573	GP Mtr,CSCR,ODP,1/4 HP,1725,48,EFF 68.5
G3906506	Mtr,3ph,1.5 HP,1735,208-230/460, Eff 84.0	G9096071	3Ph,1.5HP,1740,208-230/460,86.5
G1678573	Mtr,3 Ph,1/4hp,1725,208-230/460, Eff 62.0	G9048724	3PH,1/4HP,1725RPM,48,EFF 69.5
G3502432	Mtr,3 Ph,1/3hp,1725,208-230/460, Eff 68.6	G9048733	3PH,1/3HP,1725RPM,48,EFF 73.4
G1393427	GP Mtr,CS,ODP,1/2 HP,3450 rpm,48Z	G8565225	MTR,CS/CR,ODP,1/2 HP,3450,48Z,EFF 72.4
G2205682	GP Mtr,CS,ODP,1/3 HP,3450 rpm,48Z	G9009427	MTR,CS/CR,ODP,1/3 HP,3450,48Z,EFF 70.5
G1124173	Mtr,1/4 HP,1140RPM, 115V	G9090541	MTR,CS/CR 1/4,1140,115,EFF 62.2
G1347236	GP Mtr,CS,ODP,1/3 HP,1140 rpm,56	G9090584	MTR,CS/CR, ODP,1/3 HP,1140,56,EFF 66.6
G1138846	GP Mtr,CS,ODP,1/2 HP,1725 rpm,56C	G9078921	GP Mtr,CS/CR,ODP,1/2HP,1725,56C,EFF 76.2
G2973686	GP Mtr,CS,ODP,1/4 HP,1725 rpm,56C	G9078937	GP Mtr,CS/CR,ODP,1/4HP,1725,56C,EFF 68.5
G1495277	Mtr,1/2HP,1140RPM, 115/230V	G9090645	MTR,CS/CR, ODP,1/2 HP,1140,56,EFF 76.2
G2113282	GP Mtr,CS,ODP,3/4 HP,1725 rpm,56C	G9097173	MTR,CS/CR,ODP,3/4 HP,1725,56C,EFF 81.8
G1007657	GP Mtr,CS,ODP,1 HP,1725 rpm,56C	G9097182	MTR,CS/CR,ODP,1 HP,1725,56C,EFF 82.6
G3232433	GP Mtr,CS,ODP,2 HP,1725 rpm,56HZ	G9097137	MTR,CS/CR,ODP,2 HP,1725,56HZ,EFF 84.5

