

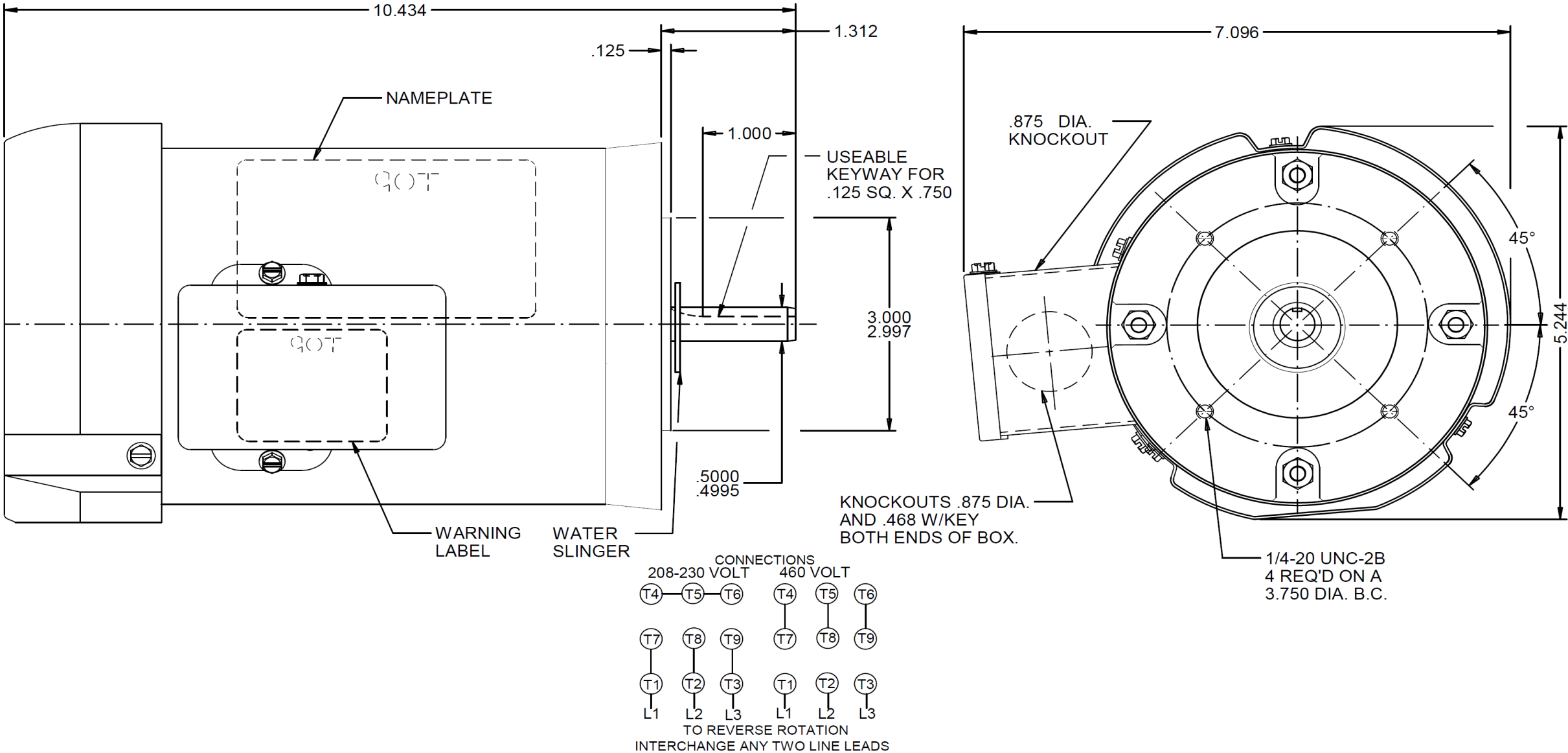
# Dimensional Drawing



**3N842BG**      REV. -

MODEL	REF	CUSTOMER	CUSTOMER PN	HP	VOLTS	AMPS	HZ	RPM	ROTATION	DESCRIPTION / REMARKS
P48CRR-0143		GRAINGER	3N842BG	1/3	208-230/460	1.5-1.5/.75 & 1.7-1.9/0.94	60 & 50	1725 & 1425	REVERSIBLE	P48, C-FACE, BALL, TEFC

NOTE: KEY AND INSTRUCTION BOOK SHIPPED AS A KIT IN A PLASTIC BAG



DRAWING NO.      PAGE 1 of 1      REV. -  
3N842BG

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data



**3N842BG**

REV.  
-

## THREE PHASE MOTOR PERFORMANCE

<b>HP:</b>	1/3					
<b>Poles:</b>	4					
<b>Volts:</b>	208-230/460	<b>460</b>	<b>230</b>	<b>208</b>	<b>460</b>	<b>230</b>
<b>HZ:</b>	60 & 50	<b>60</b>	<b>60</b>	<b>60</b>	<b>50</b>	<b>50</b>
<b>Service Factor:</b>	1.15					
<b>Efficiency (%):</b>	Full Load	71.1	70.6	72.9	66.8	66.6
	Service Factor	72.0	72.1	73.8	68.3	68.0
	3/4	66.8	67.0	69.9	61.6	61.6
	1/2	59.8	59.9	63.3	53.7	53.4
	1/4	44.0	44.1	48.4	37.5	37.2
<b>Power Factor (%):</b>	Full Load	63.8	64.4	70.9	54.7	54.9
	Service Factor	68.2	68.5	74.7	59.4	59.7
	3/4	55.4	55.6	62.5	46.6	46.7
	1/2	44.6	44.9	51.2	37.0	37.3
	1/4	31.8	31.9	36.2	26.9	27.1
<b>Amps:</b>	Full Load	0.7	1.4	1.3	0.9	1.7
	Service Factor	0.7	1.5	1.4	0.9	1.8
	3/4	0.6	1.3	1.2	0.8	1.6
	1/2	0.6	1.2	1.1	0.8	1.6
	1/4	0.6	1.1	1.0	0.8	1.5
	No Load	0.5	1.0	0.9	0.8	1.5
	Locked Rotor	4.2	8.9	7.8	4.7	9.3
<b>NEMA Code Letter:</b>		<b>M</b>				
<b>NEMA Design Letter:</b>						
<b>Full Load RPM:</b>		1732	1732	1718	1444	1446
<b>NEMA Nominal Efficiency (%):</b>						
<b>Guaranteed Efficiency (%):</b>						
<b>Max KVAR:</b>						
<b>Ambient (°C):</b>		40				
<b>Altitude (FASL):</b>		-				
<b>Full Load Torque</b>	Lb.Ft. / Oz.Ft.					
	(Circle One)	16.15	16.15	16.29	19.37	19.35
<b>Torques:</b> % Full-Load	Breakdown	85.53	85.97	69.89	108.01	108.90
	Locked Rotor	87.28	91.08	71.17	119.00	112.61
	Pull-Up	80.30	83.93	68.15	110.57	104.69
	Service Factor	18.70	18.69	18.89	22.43	22.40
<b>Temperature Rise:</b>	Full Load	43.40	44.10	40.20	65.10	66.30
	Service Factor	-	-	-	-	-
<b>Winding Material:</b>		Cu				
<b>Notes:</b>						

DRAWING NO. PAGE 1 of 1  
3N842BG

REV.  
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**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

# Performance Data



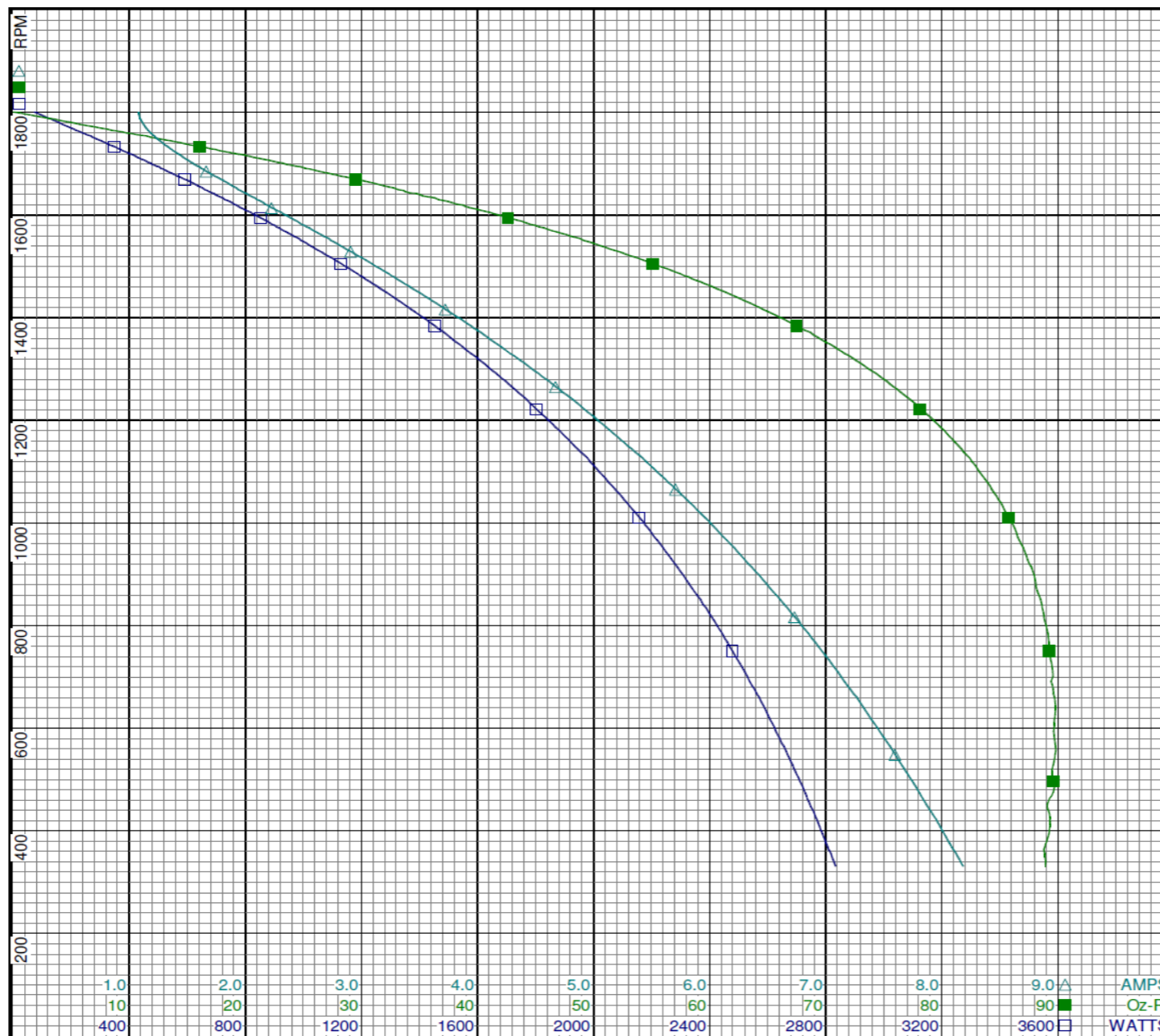
3N842BG		REV. -										
<b>Dayton Manufacturing Company</b>												
<b>Motor Description</b>						<b>Test Conditions</b>						
Model:	P048CRR014301 3N842BG			Test Type:	Start	Run Cap:	0					
Motor ID:	1			Test Number:	11	Start Cap:	0µfd					
Poles:	4			Poles:	4	Environment:						
Volts:	208-230/460			Volts:	230	Tested:	10/20/2003 1:48:10 PM					
Frequency:	60			Hz:	60	Tested By:	Clausner, Chris					
HP:	1/3			Rotation:		Gear Ratio:	1:1					
Speed:	1725			Special Cond:		Bearing Friction:	-0.25 Oz-Ft					
Phase:	3			Speed Conn:		Windage Torque:	-0.73 Oz-Ft					
Protector:	NONE			TestBoard:	Amps Performance Fixture #4							
<b>Special Points</b>	<b>Vab (V)</b>	<b>Vbc (V)</b>	<b>Vca (V)</b>	<b>Ia (A)</b>	<b>Ib (A)</b>	<b>Ic (A)</b>	<b>Watts</b>	<b>RPM</b>	<b>Tq (Oz-ft)</b>	<b>HP</b>	<b>Eff (%)</b>	<b>PF (%)</b>
	228.5	229.4	232.2	8.171	8.352	8.430	2830	335	88.91	0.354	9.3	85.4
	228.5	229.4	232.2	8.035	8.216	8.292	2792	388	89.13	0.411	11.0	85.7
	228.5	229.4	232.2	7.892	8.069	8.149	2753	442	89.12	0.469	12.7	86.0
	228.5	229.3	232.2	7.725	7.902	7.978	2706	503	89.56	0.536	14.8	86.3
	228.4	229.3	232.2	7.508	7.681	7.756	2642	579	89.69	0.618	17.5	86.7
	228.5	229.3	232.2	7.238	7.408	7.478	2561	667	89.59	0.712	20.7	87.2
	228.5	229.3	232.2	6.937	7.102	7.167	2469	759	89.21	0.806	24.4	87.7
	228.5	229.4	232.2	6.608	6.771	6.835	2368	850	88.50	0.896	28.2	88.2
	228.5	229.3	232.2	6.270	6.428	6.487	2259	936	87.27	0.972	32.1	88.7
	228.5	229.4	232.2	5.925	6.079	6.135	2147	1018	85.56	1.036	36.0	89.1
<b>PUT OZ-FT</b>	<b>228.5</b>	<b>229.3</b>	<b>232.2</b>	<b>5.644</b>	<b>5.794</b>	<b>5.844</b>	<b>2052</b>	<b>1078</b>	<b>83.93</b>	<b>1.077</b>	<b>39.2</b>	<b>89.4</b>
	228.5	229.4	232.2	5.580	5.730	5.781	2031	1093	83.46	1.086	39.9	89.5
	228.5	229.4	232.1	5.232	5.377	5.424	1913	1162	80.95	1.120	43.7	89.9
	228.5	229.4	232.1	4.890	5.035	5.068	1792	1227	77.95	1.139	47.4	90.0
	228.5	229.3	232.2	4.555	4.697	4.723	1675	1285	74.65	1.142	50.9	90.3
	228.5	229.4	232.2	4.227	4.367	4.386	1557	1339	71.00	1.132	54.2	90.3
	228.5	229.4	232.1	3.912	4.050	4.063	1442	1388	67.12	1.109	57.4	90.3
	228.5	229.4	232.1	3.610	3.747	3.752	1329	1432	63.04	1.075	60.3	90.1
	228.5	229.4	232.1	3.326	3.462	3.459	1222	1472	58.88	1.032	63.0	89.8
	228.5	229.4	232.1	3.063	3.200	3.188	1120	1508	54.72	0.983	65.4	89.2
	228.5	229.4	232.1	2.822	2.957	2.938	1025	1539	50.64	0.928	67.5	88.5
	228.5	229.4	232.1	2.589	2.724	2.697	932	1569	46.44	0.867	69.4	87.6
	228.5	229.4	232.1	2.366	2.504	2.472	843	1597	42.20	0.802	71.0	86.4
	228.5	229.4	232.1	2.153	2.291	2.248	753	1624	37.76	0.730	72.3	84.7
	228.5	229.5	232.1	1.957	2.097	2.044	668	1648	33.61	0.659	73.6	82.5
	228.5	229.5	232.1	1.771	1.907	1.844	582	1672	29.07	0.578	74.2	79.4
	228.5	229.4	232.1	1.604	1.741	1.665	502	1694	24.76	0.499	74.2	75.4
	228.5	229.5	232.1	1.452	1.585	1.496	422	1715	20.32	0.415	73.4	70.0
	228.5	229.5	232.1	1.317	1.445	1.340	339	1735	15.68	0.324	71.2	62.3
	228.5	229.4	232.1	1.208	1.330	1.206	260	1755	11.10	0.232	66.5	52.4
	228.3	229.7	232.0	1.128	1.230	1.100	178	1774	6.26	0.132	55.4	38.8
	228.4	229.7	232.0	1.083	1.175	1.019	96	1795	1.40	0.030	23.4	22.0
	228.4	229.6	232.0	1.081	1.167	1.004	72	1800	0.03	0.001	0.6	16.8
DRAWING NO.										PAGE 1 of 8		REV.
										3N842BG		-

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data



**3N842BG**      REV. -



**Dayton**<sup>®</sup>

Curve Descriptions:  
Motor(1) Test 11 Start 230V 60 Hz 4P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs Ia

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Motor Ratings:  
(1) P048CRR014301 3N842BG

DRAWING NO.	PAGE 2 of 8	REV.
	<b>3N842BG</b>	-

**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

# Performance Data



3N842BG		REV.	Dayton Manufacturing Company									
Motor Description			Test Conditions									
Model:	P048CRR014301 3N842BG		Test Type:	Run			Run Cap:	0				
Motor ID:	1		Test Number:	8			Start Cap:	0µfd				
Poles:	4		Poles:	4			Environment:					
Volts:	208-230/460		Volts:	230			Tested:	10/20/2003 3:26:43 PM				
Frequency:	60		Hz:	60			Tested By:	Clausner, Chris				
HP:	1/3		Rotation:				Gear Ratio:	1:1				
Speed:	1725		Special Cond:				Bearing Friction:	-0.35 Oz-Ft				
Phase:	3		Speed Conn:				Windage Torque:	-0.87 Oz-Ft				
Protector:	NONE		TestBoard:	Amps Performance Fixture #3								
Special Points	Vab(V)	Vbc(V)	Vca(V)	Ia(A)	Ib(A)	Ic(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	228.8	230.0	231.1	1.086	1.135	0.975	66	1793	0.00	0.000	0.0	15.6
	228.8	230.0	231.2	1.130	1.183	1.052	166	1773	5.51	0.116	52.1	37.2
	228.8	230.0	231.2	1.231	1.284	1.182	262	1753	11.02	0.230	65.5	53.4
	228.9	230.0	231.2	1.353	1.413	1.325	347	1733	15.84	0.327	70.2	63.9
<b>16.2 OZ-FT</b>	<b>228.8</b>	<b>230.0</b>	<b>231.2</b>	<b>1.361</b>	<b>1.421</b>	<b>1.334</b>	<b>352</b>	<b>1732</b>	<b>16.20</b>	<b>0.334</b>	<b>70.7</b>	<b>64.5</b>
<b>18.7 OZ-FT</b>	<b>228.8</b>	<b>230.0</b>	<b>231.2</b>	<b>1.435</b>	<b>1.499</b>	<b>1.420</b>	<b>396</b>	<b>1721</b>	<b>18.70</b>	<b>0.383</b>	<b>72.1</b>	<b>68.5</b>
	228.8	230.0	231.2	1.506	1.573	1.497	435	1712	20.94	0.427	73.2	71.6
	228.8	230.0	231.2	1.670	1.740	1.675	519	1691	25.49	0.513	73.8	76.8
	228.9	229.9	231.2	1.863	1.934	1.878	610	1668	30.33	0.602	73.6	81.0
	228.9	229.9	231.2	2.063	2.137	2.092	700	1644	34.97	0.685	73.0	83.7
	229.0	229.8	231.2	2.269	2.350	2.309	789	1620	39.44	0.761	71.9	85.8
	228.8	229.9	231.2	2.514	2.593	2.571	891	1591	44.51	0.843	70.6	87.3
	228.7	230.0	231.3	2.765	2.842	2.835	992	1561	48.97	0.910	68.4	88.5
	228.7	230.0	231.3	3.030	3.109	3.112	1097	1529	53.67	0.977	66.4	89.3
	228.8	230.0	231.3	3.320	3.397	3.409	1208	1493	58.25	1.035	63.9	89.9
	228.7	230.0	231.3	3.613	3.694	3.716	1320	1455	62.71	1.086	61.4	90.2
	228.5	230.0	231.5	3.918	3.999	4.048	1436	1412	66.70	1.121	58.2	90.4
	228.5	230.2	231.3	4.249	4.318	4.379	1554	1366	70.94	1.153	55.3	90.4
	228.5	230.3	231.2	4.581	4.648	4.721	1673	1315	74.77	1.171	52.2	90.3
	228.3	230.4	231.3	4.915	4.984	5.063	1793	1261	78.25	1.175	48.9	90.2
	228.3	230.4	231.3	5.265	5.332	5.414	1910	1202	81.30	1.163	45.4	89.9
	228.4	230.4	231.3	5.611	5.679	5.773	2029	1137	83.90	1.135	41.7	89.6
<b>BDT OZ-FT</b>	<b>228.4</b>	<b>230.4</b>	<b>231.2</b>	<b>5.889</b>	<b>5.957</b>	<b>6.058</b>	<b>2122</b>	<b>1082</b>	<b>85.97</b>	<b>1.107</b>	<b>38.9</b>	<b>89.2</b>
	228.4	230.4	231.2	5.958	6.027	6.128	2145	1067	86.16	1.094	38.1	89.2
	228.3	230.4	231.3	6.299	6.371	6.482	2256	992	88.04	1.040	34.4	88.7
	228.4	230.3	231.3	6.634	6.714	6.830	2363	912	89.36	0.970	30.6	88.2
	228.4	230.3	231.3	6.969	7.055	7.173	2467	824	90.25	0.886	26.8	87.6
	228.3	230.3	231.4	7.290	7.376	7.511	2565	731	90.34	0.786	22.9	87.1
	228.4	230.2	231.4	7.611	7.707	7.840	2659	629	90.17	0.675	18.9	86.5
	228.3	230.3	231.4	7.910	8.014	8.153	2747	522	89.74	0.558	15.2	85.9
	228.4	230.3	231.4	8.209	8.317	8.452	2829	406	88.91	0.430	11.3	85.3
	228.3	230.3	231.4	8.490	8.598	8.736	2904	286	88.29	0.300	7.7	84.7
	228.3	230.3	231.3	8.720	8.828	8.971	2962	171	86.93	0.177	4.5	84.1
	228.3	230.3	231.4	8.958	9.086	9.217	3024	35	88.32	0.036	0.9	83.5

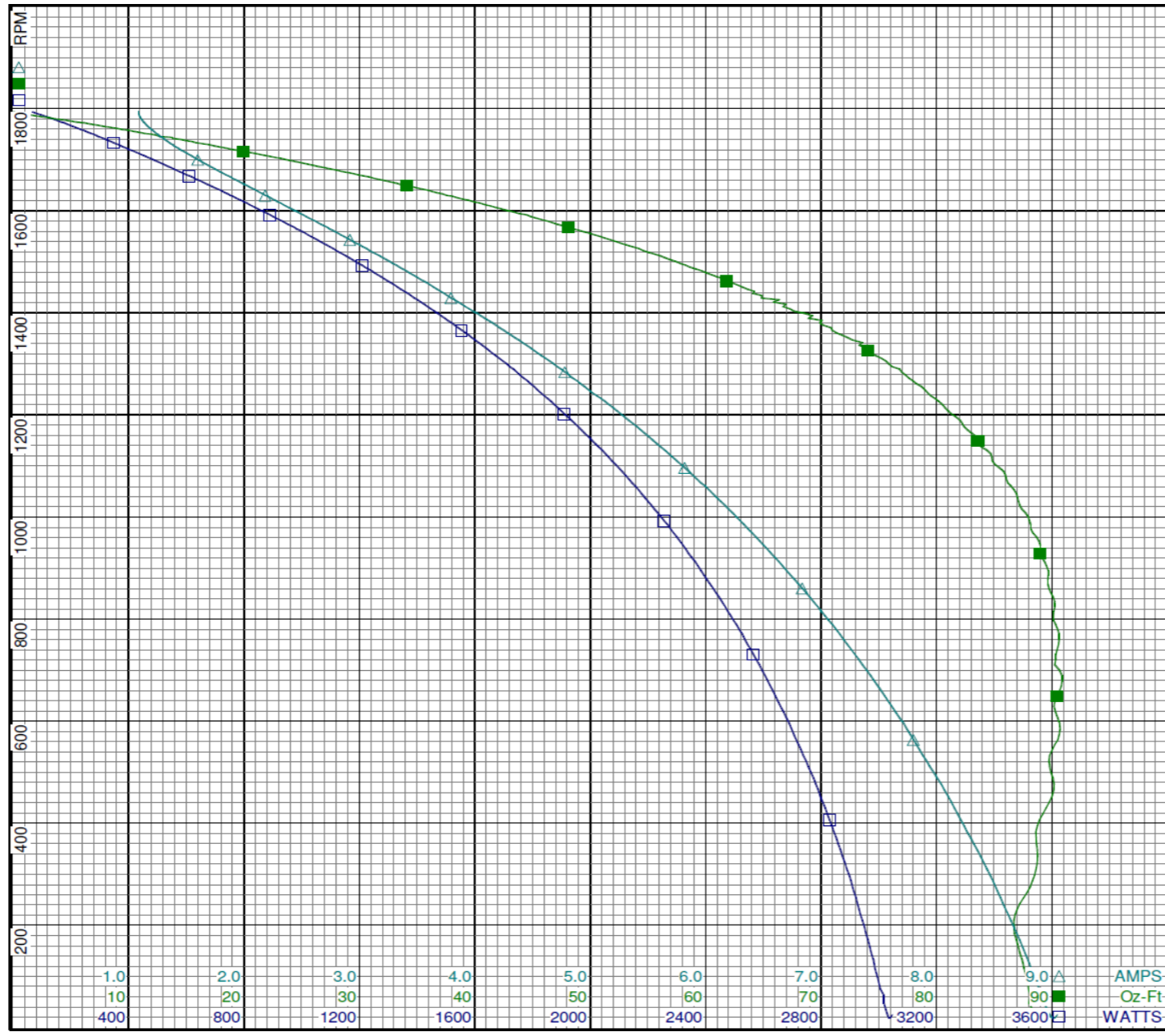
DRAWING NO.	PAGE 3 of 8	REV.
3N842BG		-

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data



**3N842BG**      REV. -



**Dayton**<sup>®</sup>

Curve Descriptions:  
Motor(1) Test 8 Run 230V 60 Hz 4P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs Ia

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Motor Ratings:  
(1)P048CRR014301 3N842BG

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	<b>3N842BG</b>	-

**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

# Performance Data



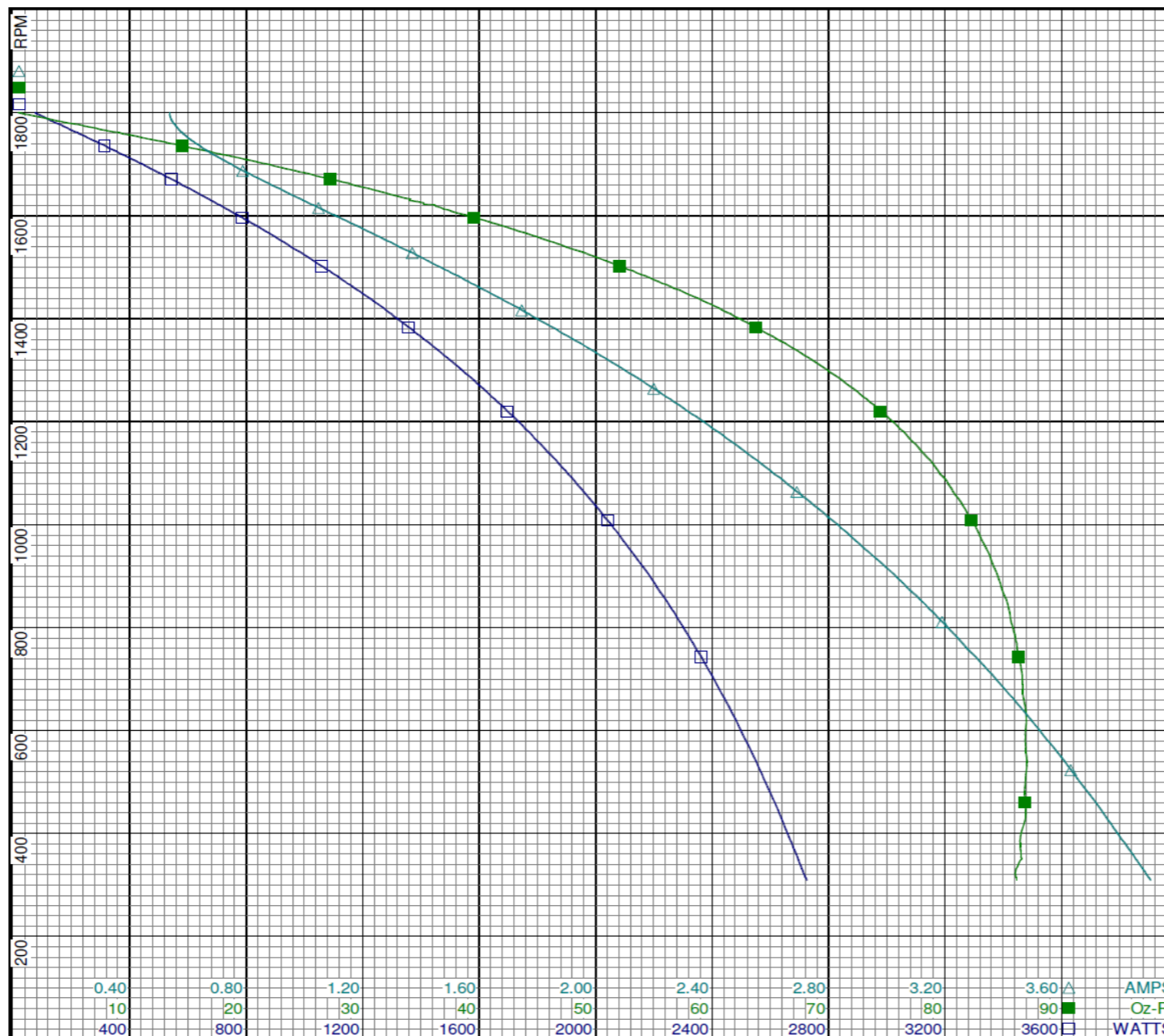
3N842BG		REV.	Dayton Manufacturing Company										
Motor Description			Test Conditions										
Model:	P048CRR014301 3N842BG		Test Type:	Start			Run Cap:	0					
Motor ID:	1		Test Number:	12			Start Cap:	0µfd					
Poles:	4		Poles:	4			Environment:						
Volts:	208-230/460		Volts:	460			Tested:	10/20/2003 2:01:51 PM					
Frequency:	60		Hz:	60			Tested By:	Clausner, Chris					
HP:	1/3		Rotation:				Gear Ratio:	1:1					
Speed:	1725		Special Cond:				Bearing Friction:	-0.31 Oz-Ft					
Phase:	3		Speed Conn:				Windage Torque:	-0.49 Oz-Ft					
Protector:	NONE		TestBoard:	Amps Performance			Fixture #4						
Special Points	Vab (V)	Vbc (V)	Vca (V)	Ia (A)	Ib (A)	Ic (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)	
	457.2	459.9	462.9	3.901	3.970	4.006	2722	313	86.12	0.321	8.8	86.3	
	457.2	459.9	463.0	3.854	3.922	3.956	2694	350	86.59	0.361	10.0	86.5	
	457.2	459.9	462.9	3.799	3.866	3.899	2662	394	86.46	0.406	11.4	86.7	
	457.1	459.9	463.0	3.707	3.772	3.806	2608	467	86.84	0.483	13.8	87.0	
	457.2	459.9	462.9	3.586	3.648	3.682	2535	557	86.93	0.577	17.0	87.5	
	457.1	459.9	462.9	3.445	3.506	3.538	2449	654	86.79	0.676	20.6	87.9	
	457.1	460.0	462.9	3.290	3.348	3.381	2354	751	86.23	0.771	24.4	88.4	
	457.1	460.0	462.9	3.131	3.187	3.216	2251	845	85.37	0.859	28.5	88.9	
	457.1	459.9	462.9	2.966	3.021	3.047	2143	932	83.93	0.931	32.4	89.3	
	457.1	460.0	462.9	2.798	2.850	2.874	2030	1014	82.06	0.991	36.4	89.7	
<b>PUT OZ-FT</b>	<b>457.1</b>	<b>460.0</b>	<b>462.9</b>	<b>2.661</b>	<b>2.712</b>	<b>2.733</b>	<b>1936</b>	<b>1078</b>	<b>80.30</b>	<b>1.030</b>	<b>39.7</b>	<b>90.0</b>	
	457.1	460.0	462.9	2.631	2.681	2.702	1917	1092	79.87	1.038	40.4	90.1	
	457.1	460.1	462.9	2.466	2.515	2.533	1801	1161	77.19	1.067	44.2	90.2	
	457.2	460.0	462.9	2.300	2.350	2.370	1686	1226	74.17	1.083	47.9	90.4	
	457.1	460.0	462.9	2.144	2.191	2.208	1572	1285	70.88	1.084	51.4	90.5	
	457.1	460.0	462.9	1.988	2.036	2.048	1459	1338	67.25	1.071	54.8	90.5	
	457.1	460.0	462.9	1.835	1.884	1.892	1346	1388	63.34	1.047	58.0	90.3	
	457.1	460.0	462.9	1.698	1.747	1.752	1244	1431	59.53	1.014	60.8	90.1	
	457.1	460.0	462.9	1.572	1.620	1.621	1146	1468	55.69	0.973	63.3	89.7	
	457.1	460.0	462.9	1.447	1.497	1.494	1050	1505	51.67	0.926	65.8	89.1	
	457.1	459.9	463.0	1.327	1.378	1.370	955	1539	47.50	0.870	68.0	88.2	
	457.1	460.0	462.9	1.217	1.267	1.256	866	1570	43.42	0.811	69.9	87.2	
	457.1	460.0	462.9	1.112	1.162	1.147	778	1598	39.16	0.745	71.4	85.7	
	457.0	460.0	462.9	1.013	1.063	1.044	694	1625	35.20	0.681	73.2	83.8	
	457.1	460.0	462.9	0.921	0.972	0.947	612	1650	30.87	0.607	73.9	81.2	
	457.1	460.0	462.9	0.839	0.889	0.861	535	1673	26.82	0.534	74.4	77.9	
	457.1	460.0	462.9	0.763	0.813	0.778	460	1695	22.71	0.458	74.3	73.5	
	457.0	460.0	462.9	0.693	0.741	0.701	382	1717	18.40	0.376	73.5	67.4	
	457.1	460.1	462.9	0.635	0.680	0.633	307	1738	14.11	0.292	70.9	59.4	
	457.1	460.0	462.9	0.587	0.630	0.575	234	1757	9.86	0.206	65.8	49.1	
	457.1	460.0	462.9	0.553	0.592	0.528	156	1778	5.29	0.112	53.4	35.2	
	457.1	460.0	462.9	0.536	0.572	0.496	81	1798	0.86	0.018	16.9	19.1	
	457.1	460.1	462.9	0.536	0.571	0.494	74	1800	0.42	0.009	9.1	17.4	
											DRAWING NO.	PAGE 5 of 8	REV.
											3N842BG		-

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data



**3N842BG**      REV. -



**Dayton**

Curve Descriptions:  
Motor(1) Test 12 Start 460V 60 Hz 4P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs Ia

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Motor Ratings:  
(1) P048CRR014301 3N842BG

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<b>3N842BG</b>		-

**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**



# Performance Data



3N842BG		REV.	Dayton Manufacturing Company									
Motor Description			Test Conditions									
Model:	P048CRR014301 3N842BG		Test Type:	Run			Run Cap:	0				
Motor ID:	1		Test Number:	9			Start Cap:	0µfd				
Poles:	4		Poles:	4			Environment:					
Volts:	208-230/460		Volts:	460			Tested:	10/20/2003 3:17:31 PM				
Frequency:	60		Hz:	60			Tested By:	Clausner, Chris				
HP:	1/3		Rotation:				Gear Ratio:	1:1				
Speed:	1725		Special Cond:				Bearing Friction:	-0.33 Oz-Ft				
Phase:	3		Speed Conn:				Windage Torque:	-0.87 Oz-Ft				
Protector:	NONE		TestBoard:	Amps Performance			Fixture #3					
Special Points	Vab (V)	Vbc (V)	Vca (V)	Ia (A)	Ib (A)	Ic (A)	Watts	RPM	Tq(Oz-ft)	HP	Eff (%)	PF (%)
	457.6	460.0	462.4	0.541	0.579	0.490	62	1794	0.00	0.000	0.0	14.5
	457.6	460.0	462.4	0.561	0.605	0.530	166	1774	5.46	0.115	51.7	36.9
	457.7	459.9	462.4	0.609	0.653	0.592	259	1753	10.86	0.227	65.3	52.6
	457.7	459.9	462.4	0.672	0.720	0.666	348	1733	16.04	0.331	71.0	63.6
<b>16.2 OZ-FT</b>	<b>457.7</b>	<b>459.9</b>	<b>462.4</b>	<b>0.674</b>	<b>0.722</b>	<b>0.669</b>	<b>350</b>	<b>1732</b>	<b>16.20</b>	<b>0.334</b>	<b>71.1</b>	<b>63.9</b>
<b>18.7 OZ-FT</b>	<b>457.7</b>	<b>459.9</b>	<b>462.4</b>	<b>0.713</b>	<b>0.763</b>	<b>0.714</b>	<b>397</b>	<b>1721</b>	<b>18.70</b>	<b>0.383</b>	<b>72.0</b>	<b>68.2</b>
	457.7	459.9	462.4	0.747	0.798	0.751	434	1712	20.82	0.424	72.9	71.2
	457.7	459.9	462.4	0.830	0.882	0.841	519	1691	25.45	0.512	73.6	76.6
	457.7	459.9	462.4	0.923	0.976	0.942	608	1668	30.26	0.601	73.7	80.6
	457.7	459.9	462.4	1.023	1.079	1.047	697	1644	34.89	0.683	73.1	83.4
	457.7	459.9	462.4	1.129	1.183	1.158	788	1620	39.31	0.758	71.8	85.5
	457.8	459.9	462.4	1.248	1.304	1.282	887	1592	44.13	0.836	70.3	87.1
	457.7	459.9	462.4	1.377	1.432	1.415	991	1561	48.87	0.908	68.4	88.3
	457.8	459.9	462.3	1.508	1.564	1.551	1094	1529	53.42	0.973	66.3	89.1
	457.8	459.8	462.4	1.652	1.708	1.699	1206	1493	58.06	1.032	63.8	89.7
	457.8	459.8	462.4	1.797	1.855	1.850	1317	1454	62.57	1.083	61.4	90.1
	457.6	459.9	462.5	1.952	2.010	2.012	1433	1412	66.22	1.113	58.0	90.3
	457.5	459.9	462.6	2.113	2.171	2.178	1551	1366	70.80	1.151	55.4	90.4
	457.5	459.9	462.6	2.277	2.337	2.348	1670	1315	74.67	1.169	52.3	90.3
	457.4	460.0	462.6	2.446	2.505	2.519	1789	1261	78.17	1.173	48.9	90.2
	457.5	460.1	462.4	2.624	2.674	2.693	1908	1201	81.29	1.162	45.5	89.9
	457.4	460.1	462.4	2.794	2.848	2.871	2024	1137	84.01	1.137	41.9	89.5
<b>BDT OZ-FT</b>	<b>457.4</b>	<b>460.1</b>	<b>462.5</b>	<b>2.931</b>	<b>2.987</b>	<b>3.013</b>	<b>2116</b>	<b>1082</b>	<b>85.53</b>	<b>1.102</b>	<b>38.8</b>	<b>89.2</b>
	457.5	460.1	462.5	2.966	3.022	3.047	2139	1068	86.17	1.095	38.2	89.1
	457.5	460.1	462.4	3.139	3.196	3.225	2252	992	87.76	1.036	34.3	88.7
	457.5	460.0	462.5	3.308	3.366	3.397	2359	912	89.32	0.970	30.7	88.2
	457.5	460.2	462.3	3.474	3.533	3.567	2462	824	89.89	0.882	26.7	87.7
	457.5	460.1	462.3	3.638	3.698	3.736	2560	731	90.58	0.788	23.0	87.1
	457.5	460.2	462.3	3.800	3.860	3.900	2655	630	90.84	0.681	19.1	86.5
	457.5	460.2	462.3	3.944	4.007	4.049	2739	527	90.31	0.567	15.4	85.9
	457.5	460.1	462.3	4.088	4.153	4.194	2818	416	89.30	0.442	11.7	85.3
	457.5	460.1	462.3	4.227	4.296	4.338	2894	292	87.67	0.305	7.9	84.7
	457.6	460.1	462.4	4.361	4.429	4.466	2960	164	87.33	0.171	4.3	84.1
	457.5	460.1	462.4	4.481	4.553	4.592	3022	30	88.32	0.032	0.8	83.5

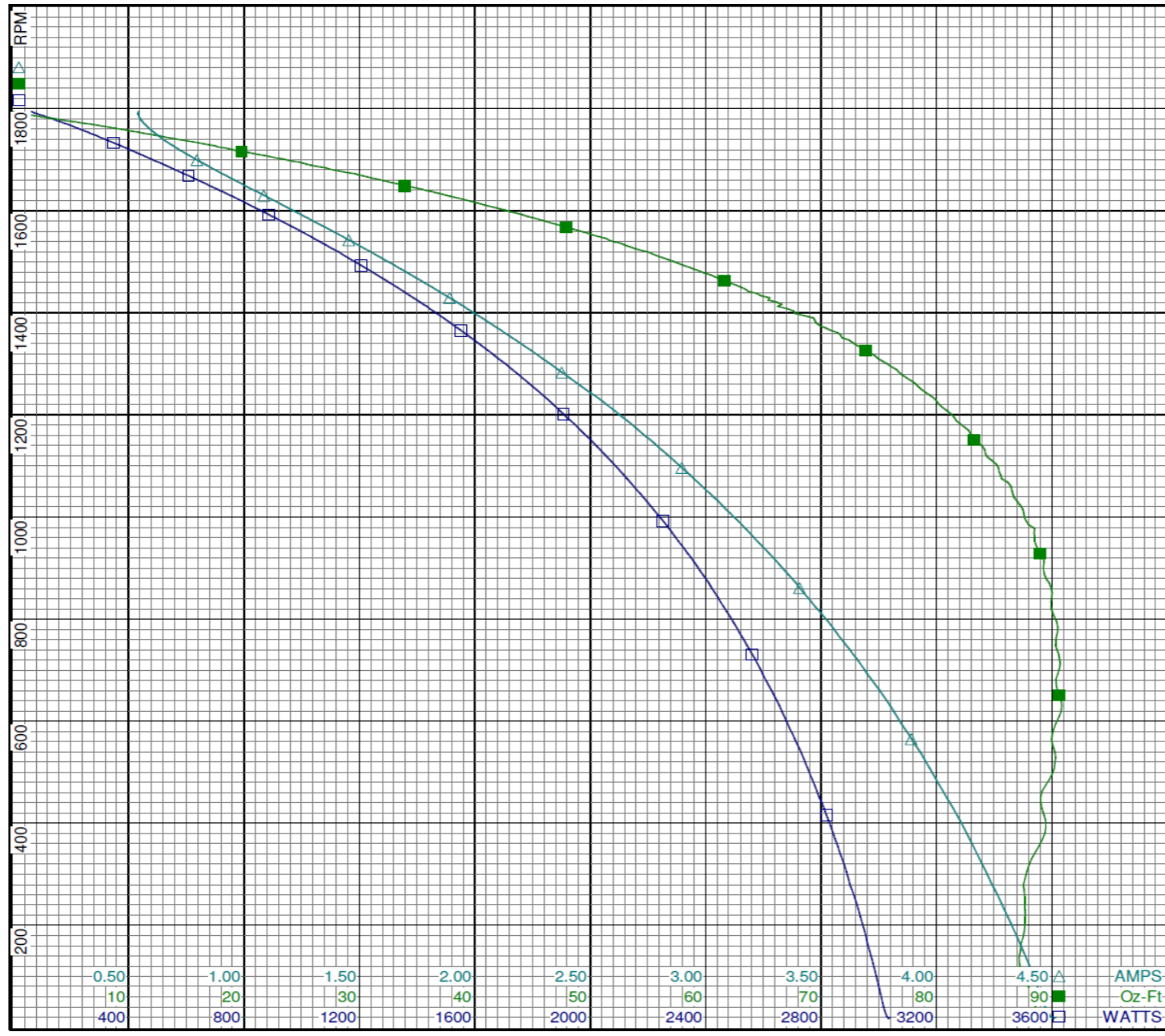
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	3N842BG	-

Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

# Performance Data



**3N842BG**      REV. -



**Dayton**<sup>®</sup>

Curve Descriptions:  
Motor(1) Test 9 Run 460V 60 Hz 4P

- SPEED vs WATTS
- SPEED vs TORQUE
- △ SPEED vs Ia

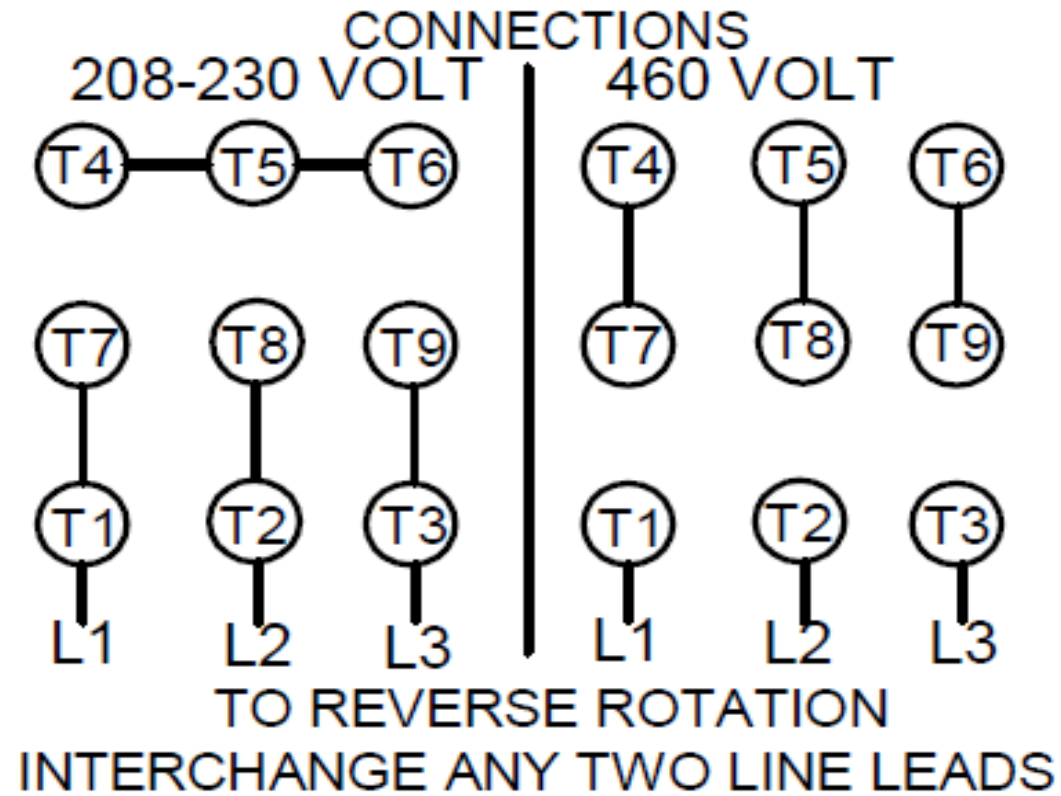
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Motor Ratings:  
(1) P048CRR014301 3N842BG

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**Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA**

3N842BG	REV. -
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3N842BG		-

# Dayton<sup>®</sup>

## INDUSTRIAL MOTOR

HP: 1/3

VOLTS: 208-230/460

AMPS: 1.5-1.5/0.75

RPM: 1725 & 1425

DUTY: CONT

SF: 1.15

KVA CODE: M

ENCL: TEFC

THERMALLY PROTECTED: NONE

MFG. NO.   PROT. CODE   AVG. F.L.

MTR REF: P48CRR-0143  
FOR 50HZ FLA 1.7-1.9/0.94 & SFA 1.7-1.9/0.94

PH: 3

HZ: 60 & 50

FR: 42CZ

INS CL: B

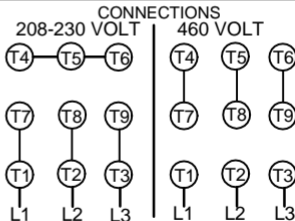
AMB: 40 °C

SFA: 1.7-1.9/0.94



Part No 3N842BG

Disconnect Power Before Making Any Electrical Connections or Changes



TO REVERSE ROTATION  
INTERCHANGE ANY TWO LINE LEADS

  
E47479

  
258501

Mfd for Dayton Electric Mfg. Co., Lake Forest, IL 60045 USA      Made in Mexico