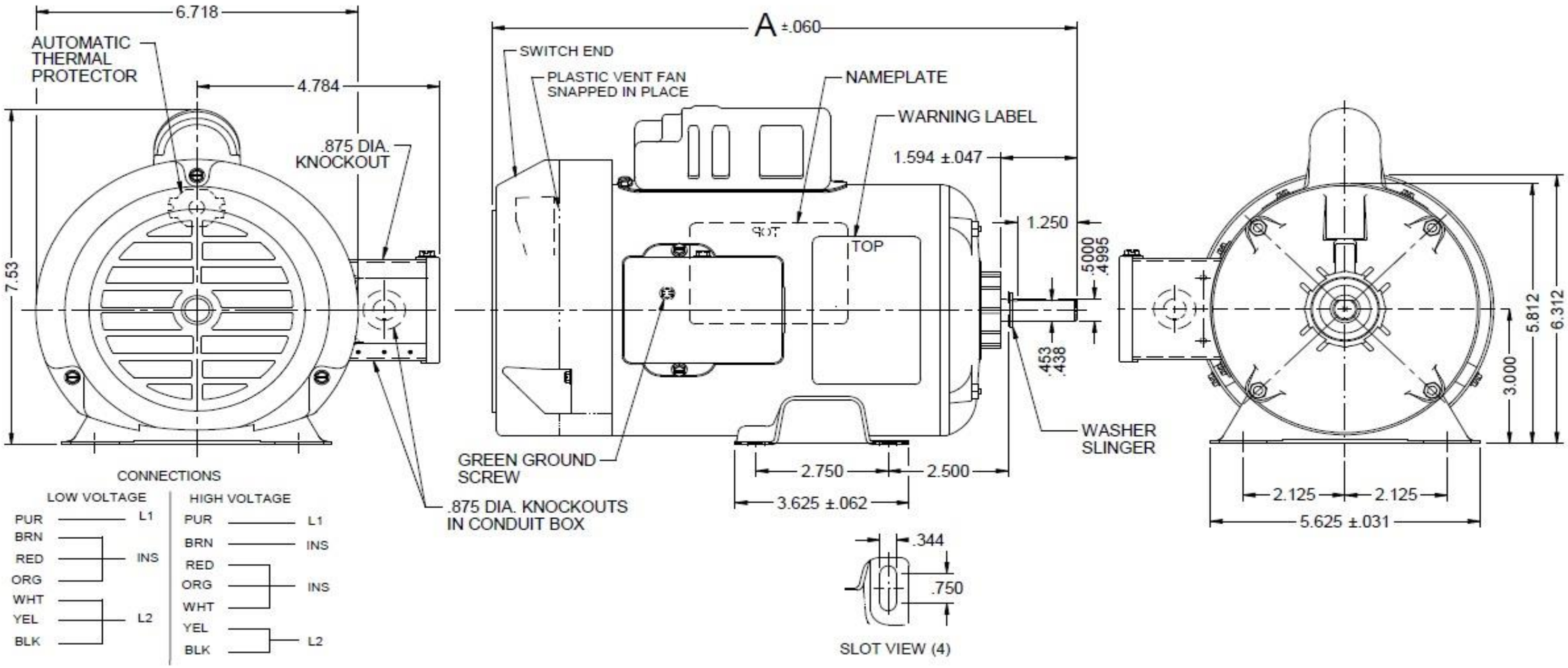
Dimensional Drawing

5K193BG

REV. -

VAR	MODEL	CUST. PT. NO.	A	B	C	D	HP	VOLTS	SF	AMPS	HZ	RPM	CONN VOLTS	PROT.	DESCRIPTION / REMARKS
001	C55CXJMB-2142	5K193BG	11.057	------	------	-------	1/2	115/208-230	1	8.5/4.2-4.3	60	1725	---	AUTO	48, TEFC, BALL BEARING



DRAWING NO.	PAGE 1 of 1	REV.
5K193BG		-

Performance Data

5K193BG	REV. X

MOTOR PERFORMANCE

HP:	1/2							
Poles:	4							
No. of Speeds:	1							
Volts:	115/208-230	**115**	**208**	**230**				
HZ:	60	**60**	**60**	**60**				
Service Factor:	1							
Efficiency:	@ Rated Load	58.8	60.1	58.1				
Power Factor:	@ Rated Load	66.9	72.4	66.9				
Amps:	@ No Load							
	@ Rated Load	8.3	4.1	4.2				
	@ Service Factor	-	-	-				
	@ Locked Rotor	35.6	16.3	18.5				
RPM:	@ Rated Load	1733	1715	1733				
Ambient (°C):	40							
Altitude (FASL):								
Torques:	Breakdown	43.5	46.1	57.7				
	Locked Rotor	78.4	60.2	72.3				
	Pull-Up	78.1	58.5	72.1				
	Rated Load	24.2	24.5	24.2				
	Service Factor	-	-	-				
Watts:	Rated Load	635	620	642				
KVA Code:								
Temperature Rise:	@ Rated Load	94	92	102				
	@ Service Factor	-	-	-				
Thermal Protector:	Trip Temp (°C)	133.8	144.4	142.6				
Winding Material:	Start (Auxiliary)	Al	Al	Al				
	Run (Main)	CU	CU	CU				
Capacitor(s):	Start (MFD / Volts)	451.5 mFd, 110V						
	No. of Start Capacitors							
	Run (MFD / Volts)	N/A						
	No. of Run Capacitors							
LOW SPEED PERFORMANCE DATA:								
HP:								
Poles:								
Volts:								
HZ:								
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Service Factor							
	@ Locked Rotor							
Torques:	Bead Down							
	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							

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

Performance Data

5K193BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055JMB214201 5K193BG
Motor ID:	1
Poles:	4
Volts:	115/208-230
Frequency:	60
HP:	1/2
Speed:	1725
Phase:	1
Protector:	CEJ69GV

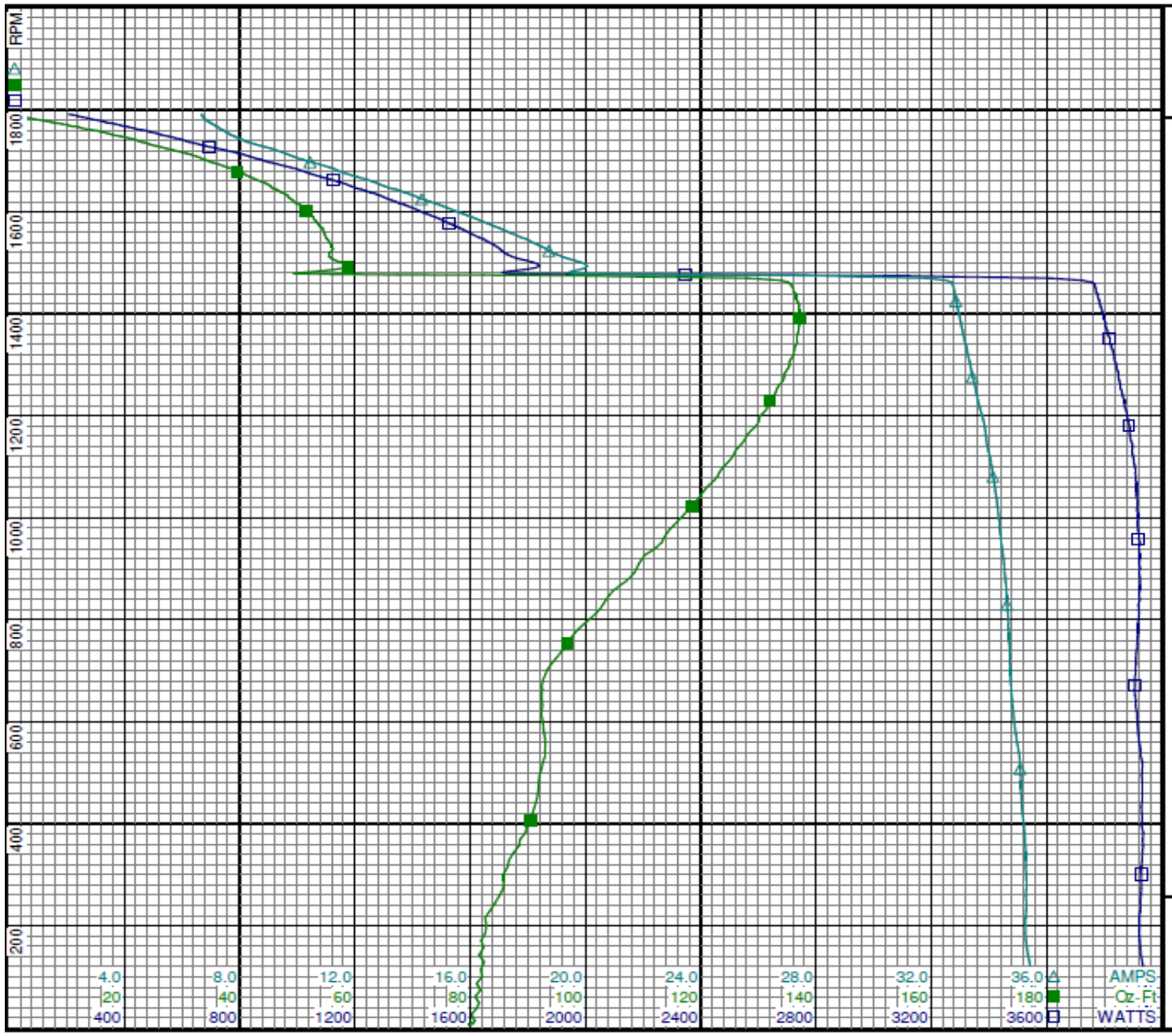
Test Conditions

Test Type:	Start	Run Cap:	0
Test Number:	1	Start Cap:	452µfd
Poles:	4	Environment:	
Volts:	115	Tested:	10/20/2015 9:20:07 AM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:	CCW	Gear Ratio:	1:1
Special Cond:	2 Line st thru switch for PUT	Bearing Friction:	-0.50 Oz-Ft
Speed Conn:		Windage Torque:	-2.77 Oz-Ft
TestBoard:	Amtps Performance Fixture #3		

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	35.60	3952	6	78.39	0.006	0.1	96.5
PUT OZ-FT	**115.0**	**35.63**	**3957**	**6**	**78.11**	**0.006**	**0.1**	**96.6**
	115.0	35.53	3948	28	80.33	0.026	0.5	96.6
	115.0	35.31	3925	157	82.30	0.153	2.9	96.7
	115.0	35.28	3928	301	85.77	0.307	5.8	96.8
	115.0	35.13	3929	433	91.16	0.470	8.9	97.2
	115.0	34.98	3923	554	93.05	0.613	11.7	97.5
	115.0	34.76	3904	662	92.45	0.729	13.9	97.7
	115.0	34.69	3914	762	97.37	0.884	16.8	98.1
	115.0	34.60	3922	857	104.80	1.069	20.3	98.6
	115.0	34.44	3920	943	112.34	1.261	24.0	99.0
	115.0	34.28	3914	1023	118.47	1.443	27.5	99.3
	115.0	34.09	3907	1096	123.66	1.614	30.8	99.6
	115.0	33.87	3888	1164	128.13	1.775	34.1	99.8
	115.0	33.63	3869	1224	131.66	1.919	37.0	100.1
	115.0	33.41	3848	1281	134.44	2.050	39.7	100.1
	115.0	33.21	3824	1334	136.29	2.164	42.2	100.1
	115.0	33.03	3804	1382	137.14	2.256	44.2	100.2
	115.0	32.85	3783	1425	136.63	2.318	45.7	100.1
	115.0	32.51	3722	1465	133.87	2.335	46.8	99.6
	115.0	19.56	1742	1483	54.11	0.956	40.9	77.4
	115.0	18.86	1718	1519	55.59	1.006	43.7	79.2
	115.0	17.43	1601	1557	54.68	1.014	47.2	79.9
	115.0	16.04	1476	1590	52.72	0.998	50.4	80.0
	115.0	14.61	1342	1619	49.48	0.954	53.0	79.9
	115.0	13.28	1210	1645	45.81	0.897	55.3	79.2
	115.0	12.06	1080	1668	41.78	0.830	57.3	77.9
	115.0	10.88	946	1691	36.89	0.743	58.6	75.6
	115.0	9.68	810	1712	31.46	0.641	59.1	72.8
	115.0	8.65	670	1730	24.92	0.513	57.1	67.4
	115.0	7.82	553	1748	19.33	0.402	54.2	61.5
	115.0	7.23	414	1766	12.00	0.252	45.4	49.8
	115.0	6.73	253	1785	2.45	0.052	15.3	32.7
	115.0	6.67	206	1791	0.00	0.000	0.0	26.9

Performance Data

5K193BG	REV. -



Dayton

Curve Descriptions:

Motor(1) Test 1 Start 115V 60 Hz 4P
2 Line st thru switch for PUT CCW 452ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) C055JMB214201 5K193BG

DRAWING NO.	PAGE 2 of 8	REV.
5K193BG		-

Performance Data

5K193BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055JMB214201	5K193BG
Motor ID:	1	
Poles:	4	
Volts:	115/208-230	
Frequency:	60	
HP:	1/2	
Speed:	1725	
Phase:	1	
Protector:	CEJ69GV	

Test Conditions

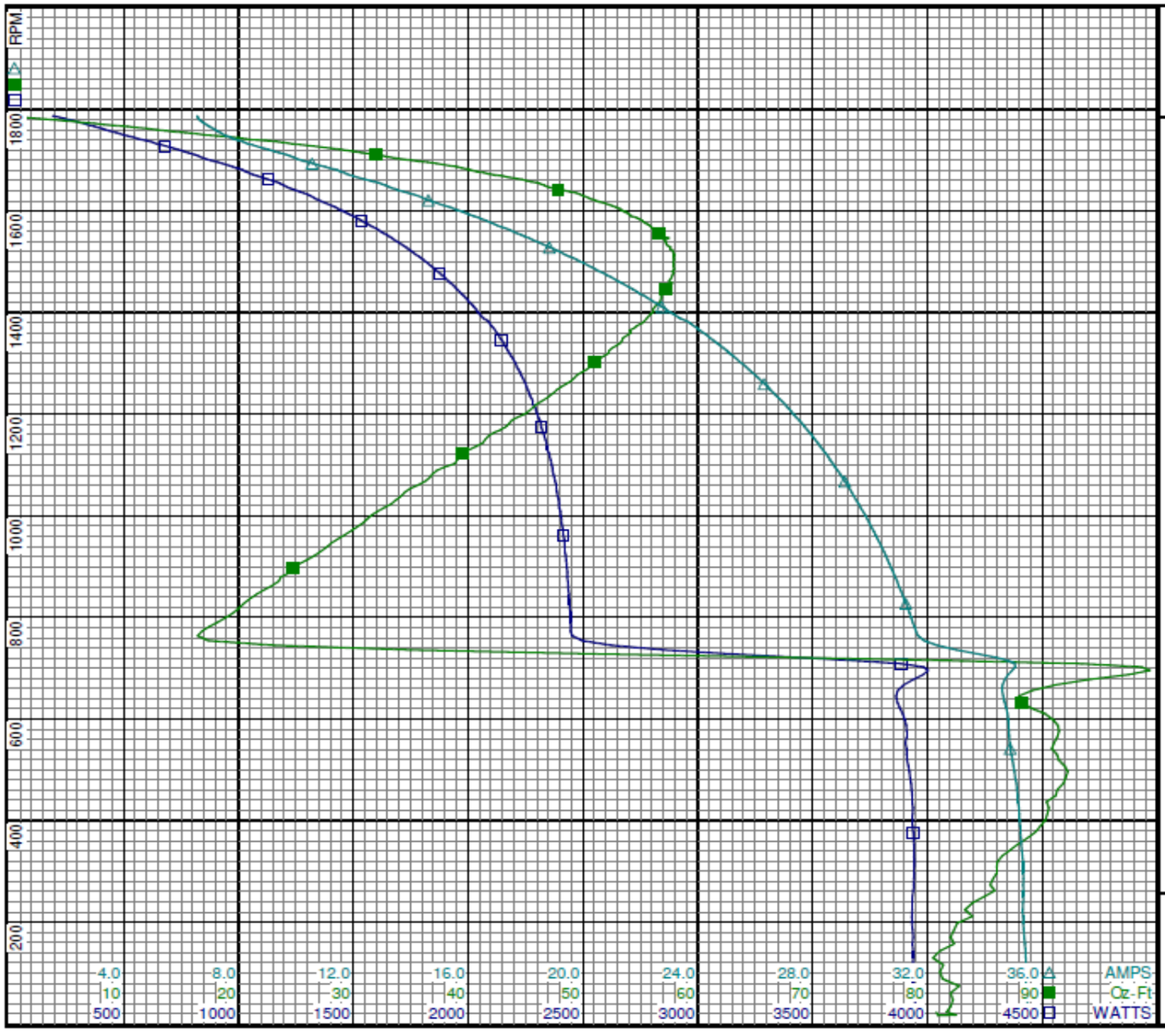
Test Type:	Run	Run Cap:	0
Test Number:	2	Start Cap:	0µfd
Poles:	4	Environment:	
Volts:	115	Tested:	10/20/2015 9:15:11 AM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:	CCW	Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.58 Oz-Ft
Speed Conn:		Windage Torque:	-2.98 Oz-Ft
TestBoard:	Amtps Performance	Fixture #3	

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	6.56	190	1787	0.00	0.000	0.0	25.2
	115.0	6.92	358	1768	9.29	0.196	40.7	45.0
	115.0	7.58	515	1748	18.13	0.377	54.6	59.2
24.3 OZ-FT	**115.0**	**8.27**	**636**	**1733**	**24.30**	**0.501**	**58.8**	**66.9**
0.5 HP	**115.0**	**8.26**	**635**	**1733**	**24.23**	**0.500**	**58.8**	**66.8**
	115.0	8.59	680	1728	26.38	0.543	59.5	68.9
1725 RPM	**115.0**	**8.74**	**701**	**1725**	**27.33**	**0.561**	**59.7**	**69.8**
	115.0	9.88	834	1706	33.03	0.671	60.0	73.4
	115.0	11.15	990	1684	39.45	0.791	59.6	77.2
	115.0	12.42	1130	1662	44.70	0.884	58.4	79.1
	115.0	13.75	1266	1638	48.87	0.953	56.1	80.1
	115.0	15.22	1409	1609	52.59	1.007	53.4	80.5
	115.0	16.61	1535	1581	55.14	1.038	50.4	80.3
	115.0	17.97	1656	1549	56.93	1.050	47.3	80.1
	115.0	19.37	1771	1514	57.93	1.044	44.0	79.5
BDT OZ-FT	**115.0**	**19.51**	**1785**	**1510**	**57.95**	**1.042**	**43.5**	**79.6**
	115.0	20.69	1875	1478	57.89	1.018	40.5	78.8
	115.0	21.99	1970	1436	56.98	0.974	36.9	77.9
	115.0	23.25	2056	1393	55.72	0.924	33.5	76.9
	115.0	24.53	2147	1345	53.40	0.855	29.7	76.1
	115.0	25.66	2211	1293	50.63	0.779	26.3	74.9
	115.0	26.72	2269	1236	47.11	0.693	22.8	73.8
	115.0	27.71	2317	1175	43.31	0.606	19.5	72.7
	115.0	28.61	2359	1109	39.01	0.515	16.3	71.7
	115.0	29.43	2389	1038	34.13	0.422	13.2	70.6
	115.0	30.19	2415	961	29.16	0.334	10.3	69.5
	115.0	30.87	2431	879	23.68	0.248	7.6	68.5
	115.0	31.48	2445	790	18.17	0.171	5.2	67.5
	115.0	35.04	3885	708	93.49	0.788	15.1	96.4
	115.0	34.78	3891	610	90.22	0.655	12.6	97.3
	115.0	35.02	3920	496	92.21	0.544	10.4	97.3
	115.0	35.23	3938	377	89.37	0.401	7.6	97.2
	115.0	35.33	3939	261	85.85	0.267	5.1	96.9
	115.0	35.42	3937	129	80.46	0.124	2.3	96.7
	115.0	35.59	3955	16	80.91	0.016	0.3	96.6

DRAWING NO.	PAGE 3 of 8	REV.
	5K193BG	-

Performance Data

5K193BG	REV. -



Curve Descriptions:

Motor(1) Test 2 Run 115V 60 Hz 4P CCW

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) C055JMB214201 5K193BG

DRAWING NO.	PAGE 4 of 8	REV.
5K193BG		-

Performance Data

5K193BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055JMB214201 5K193BG
Motor ID:	1
Poles:	4
Volts:	115/208-230
Frequency:	60
HP:	1/2
Speed:	1725
Phase:	1
Protector:	CEJ69GV

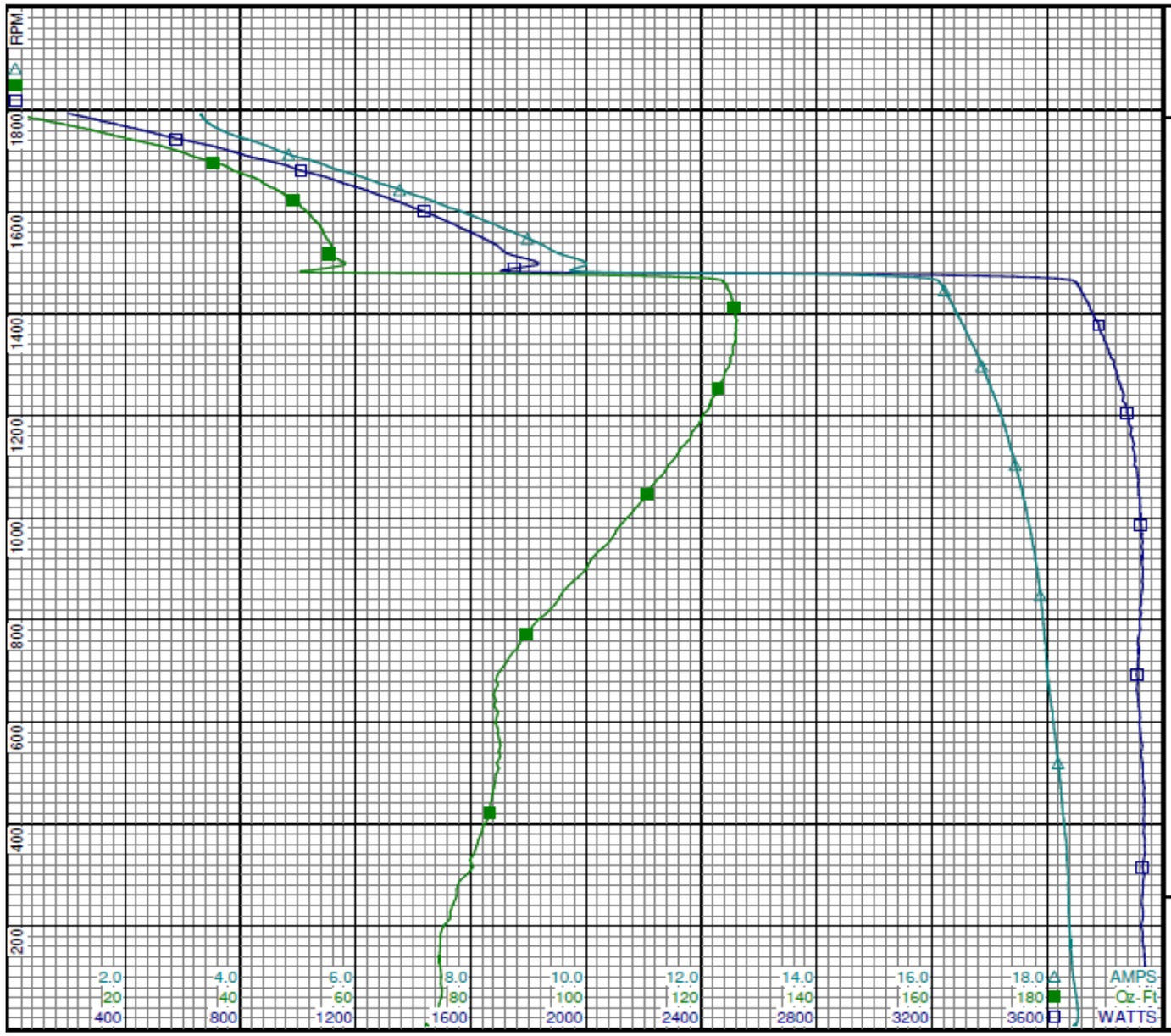
Test Conditions

Test Type:	Start	Run Cap:	0
Test Number:	9	Start Cap:	452µfd
Poles:	4	Environment:	
Volts:	230	Tested:	10/20/2015 1:38:40 PM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:	CCW	Gear Ratio:	1:1
Special Cond:	2 Line thru switch for PUT	Bearing Friction:	-0.50 Oz-Ft
Speed Conn:		Windage Torque:	-2.77 Oz-Ft
TestBoard:	Amtps Performance Fixture #3		

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	230.0	18.472	3940	7	72.29	0.006	0.1	92.7
PUT OZ-FT	**230.0**	**18.460**	**3941**	**6**	**72.09**	**0.005**	**0.1**	**92.8**
	230.0	18.534	3955	27	74.15	0.024	0.4	92.8
	230.0	18.402	3935	156	74.67	0.139	2.6	93.0
	230.0	18.353	3936	300	79.24	0.283	5.4	93.2
	230.0	18.259	3934	433	83.26	0.429	8.1	93.7
	230.0	18.155	3930	553	85.14	0.561	10.6	94.1
	230.0	18.035	3910	663	84.19	0.664	12.7	94.3
	230.0	17.953	3915	762	88.92	0.807	15.4	94.8
	230.0	17.871	3929	857	96.10	0.981	18.6	95.6
	230.0	17.757	3926	944	103.14	1.158	22.0	96.1
	230.0	17.619	3922	1024	108.98	1.328	25.3	96.8
	230.0	17.463	3910	1096	113.93	1.487	28.4	97.4
	230.0	17.298	3888	1163	118.21	1.637	31.4	97.7
	230.0	17.126	3870	1223	121.46	1.769	34.1	98.2
	230.0	16.924	3840	1282	123.95	1.892	36.7	98.7
	230.0	16.728	3807	1334	125.40	1.991	39.0	98.9
	230.0	16.515	3776	1382	126.01	2.073	40.9	99.4
	230.0	16.321	3738	1425	125.36	2.127	42.4	99.6
	230.0	16.093	3685	1466	123.46	2.155	43.6	99.6
	230.0	9.725	1712	1486	52.62	0.931	40.6	76.5
	230.0	9.448	1714	1522	55.15	0.999	43.5	78.9
	230.0	8.765	1603	1558	54.40	1.009	47.0	79.5
	230.0	8.031	1475	1592	52.24	0.990	50.0	79.9
	230.0	7.368	1350	1620	49.51	0.955	52.8	79.6
	230.0	6.705	1215	1646	45.80	0.898	55.1	78.8
	230.0	6.065	1086	1670	41.61	0.827	56.8	77.8
	230.0	5.461	952	1692	36.91	0.744	58.3	75.8
	230.0	4.889	817	1710	31.29	0.637	58.2	72.7
	230.0	4.416	686	1731	25.36	0.522	56.8	67.5
	230.0	3.899	534	1749	18.15	0.378	52.8	59.6
	230.0	3.533	400	1768	11.08	0.233	43.4	49.3
	230.0	3.345	260	1786	3.05	0.065	18.6	33.8
	230.0	3.320	203	1793	0.00	0.000	0.0	26.6

Performance Data

5K193BG	REV. -



Curve Descriptions:

Motor(1) Test 9 Start 230V 60 Hz 4P
2 Line thru switch for PUT CCW 452ufd Run

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) C055JMB214201 5K193BG

DRAWING NO.	PAGE 6 of 8	REV.
5K193BG		-

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

Performance Data

5K193BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	C055JMB214201 5K193BG
Motor ID:	1
Poles:	4
Volts:	115/208-230
Frequency:	60
HP:	1/2
Speed:	1725
Phase:	1
Protector:	CEJ69GV

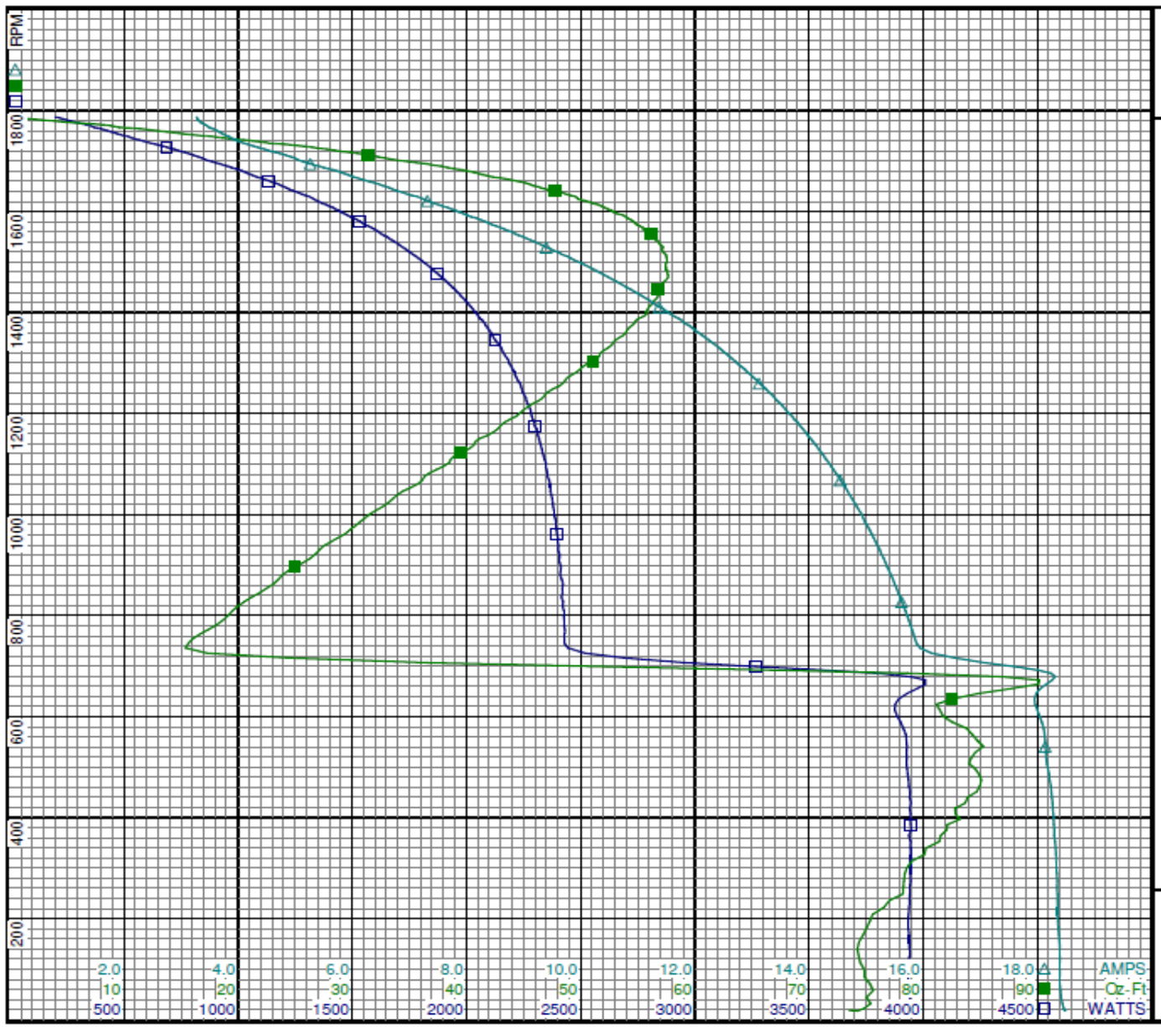
Test Conditions

Test Type:	Run	Run Cap:	0
Test Number:	10	Start Cap:	0µfd
Poles:	4	Environment:	
Volts:	230	Tested:	10/20/2015 12:30:31 PM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:	ccw	Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.54 Oz-Ft
Speed Conn:		Windage Torque:	-2.80 Oz-Ft
TestBoard:	Amtps Performance	Fixture #3	

Special Points	Vline(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	230.0	3.271	200	1787	0.00	0.000	0.0	26.6
	230.0	3.488	370	1766	9.61	0.202	40.7	46.1
	230.0	3.833	515	1749	17.44	0.363	52.6	58.4
24.3 OZ-FT	**230.0**	**4.179**	**643**	**1733**	**24.30**	**0.501**	**58.1**	**66.9**
0.5 HP	**230.0**	**4.175**	**642**	**1733**	**24.24**	**0.500**	**58.1**	**66.8**
	230.0	4.337	687	1727	26.44	0.544	59.0	68.9
1725 RPM	**230.0**	**4.393**	**703**	**1725**	**27.00**	**0.554**	**58.9**	**69.5**
	230.0	4.940	829	1707	32.31	0.657	59.1	73.0
	230.0	5.577	989	1685	38.92	0.780	58.9	77.1
	230.0	6.232	1131	1661	44.15	0.873	57.6	78.9
	230.0	6.900	1266	1637	48.41	0.943	55.6	79.8
	230.0	7.588	1400	1610	51.88	0.994	53.0	80.2
	230.0	8.308	1532	1580	54.58	1.027	50.0	80.2
	230.0	8.985	1650	1550	56.34	1.040	47.0	79.8
	230.0	9.676	1765	1514	57.45	1.036	43.8	79.3
	230.0	10.340	1868	1478	57.57	1.013	40.4	78.6
BDT OZ-FT	**230.0**	**10.474**	**1889**	**1470**	**57.66**	**1.009**	**39.9**	**78.4**
	230.0	11.000	1967	1437	56.80	0.972	36.9	77.7
	230.0	11.624	2052	1393	55.53	0.921	33.5	76.7
	230.0	12.242	2126	1345	53.04	0.849	29.8	75.5
	230.0	12.811	2196	1293	50.20	0.773	26.2	74.5
	230.0	13.346	2252	1237	46.89	0.690	22.9	73.4
	230.0	13.840	2297	1176	42.96	0.601	19.5	72.2
	230.0	14.294	2341	1109	38.62	0.510	16.2	71.2
	230.0	14.712	2371	1039	33.92	0.419	13.2	70.1
	230.0	15.094	2396	962	29.37	0.336	10.5	69.0
	230.0	15.428	2409	881	23.91	0.251	7.8	67.9
	230.0	15.746	2427	790	18.66	0.176	5.4	67.0
	230.0	17.597	3264	699	51.95	0.432	9.9	80.6
	230.0	17.999	3875	612	81.47	0.594	11.4	93.6
	230.0	18.181	3929	496	84.56	0.499	9.5	94.0
	230.0	18.287	3944	386	82.09	0.377	7.1	93.8
	230.0	18.344	3940	262	78.24	0.244	4.6	93.4
	230.0	18.393	3938	125	74.35	0.111	2.1	93.1
	230.0	18.490	3958	18	73.52	0.016	0.3	93.1

Performance Data

5K193BG	REV. -



Curve Descriptions:

Motor(1) Test 10 Run 230V 60 Hz 4P ccw

- SPEED vs WATTS
- SPEED vs TORQUE
- SPEED vs ILine

Motor Ratings:

(1) C055JMB214201 5K193BG

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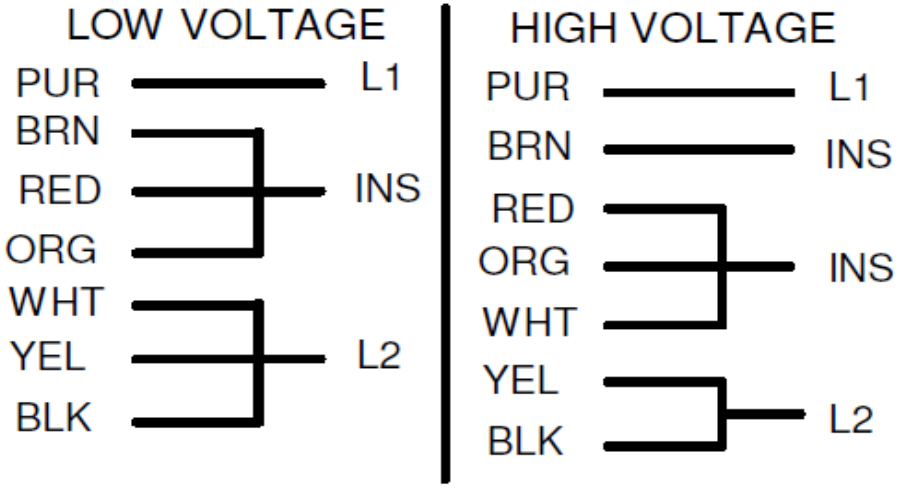
5K193BG		-

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

Wiring Diagram

5K193BG	REV. -

CONNECTIONS



MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS

DRAWING NO.	PAGE 1 of 1	REV.
5K193BG		-

Dayton®

INDUSTRIAL MOTOR

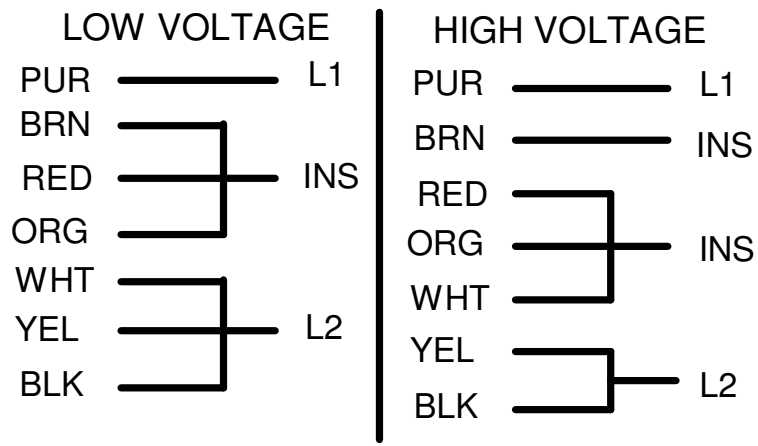
Part No 5K193BG

HP: 1/2
VOLTS: 115/208-230
AMPS: 8.5/4.2-4.3
RPM: 1725
DUTY: CONT
SF: 1.0
KVA CODE: L
ENCL: TEFC
THERMALLY PROTECTED: AUTO
MFG. NO. [ ] [ ] PROT. CODE : [00030]
MTR REF: C55CXJMB-2142

PH: 1
HZ: 60
FR: 48
INS CL: F
AMB: 40 °C
SFA: 8.5/4.2-4.3
AVG. F.L.
EFF.

Disconnect Power Before Making Any Electrical Connections or Changes

CONNECTIONS



MOTOR IS CCW ROTATION LEAD END
TO REVERSE ROTATION INTERCHANGE
RED AND BLACK LEADS

E37403

258501

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

Made in Mexico