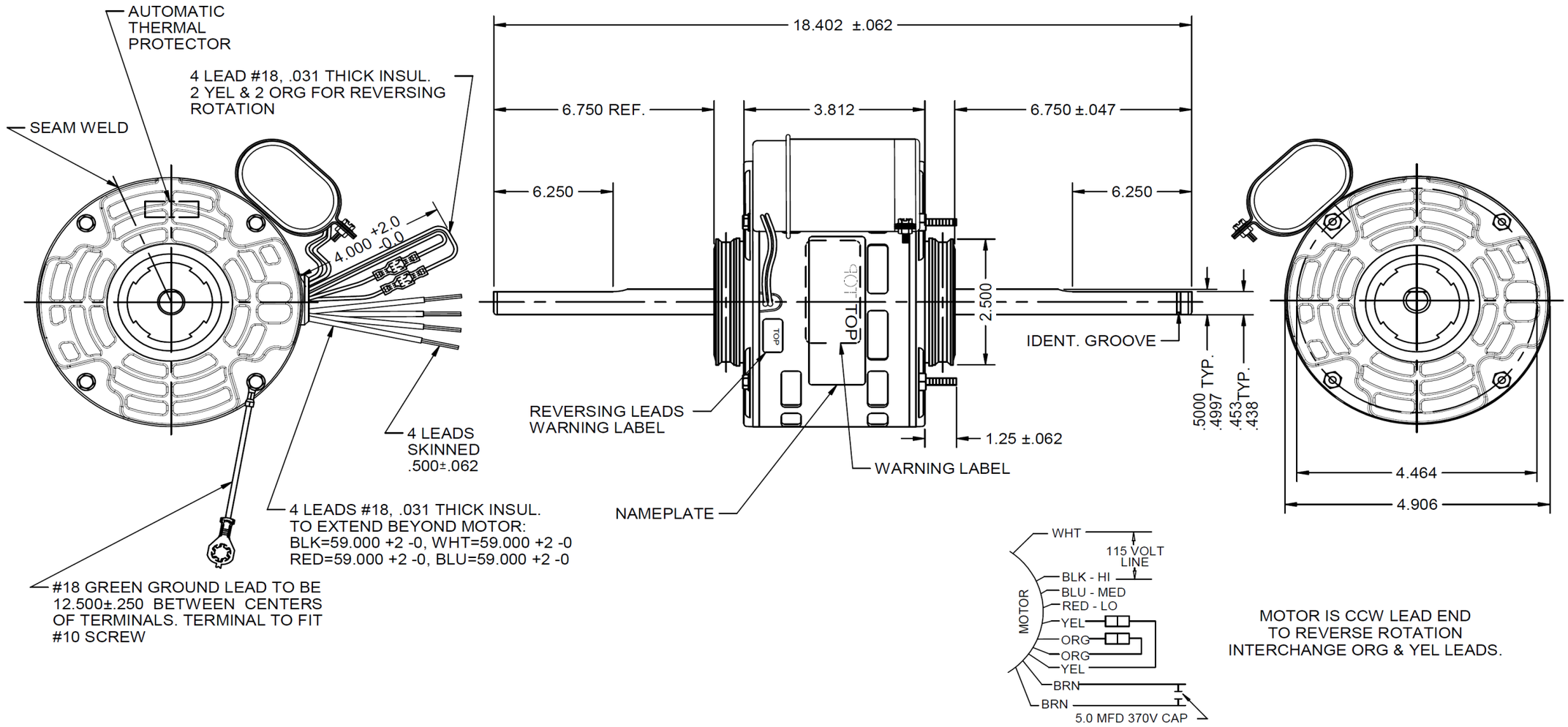
Dimensional Drawing

45EX57	REV. -

MODEL	REF	CUSTOMER	HP	VOLTS	AMPS	HZ	RPM	ROTATION	CUSTOMER PN	DESCRIPTION / REMARKS
K48HXMRS-1192	E42755	GRAINGER	1/10	115	1.43	60	1550 / 3 SPD	C.CW. LEAD END REV	45EX57	42Y, SAB, OAO.



DRAWING NO.	PAGE 1 of 1	REV.
45EX57		-

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

Performance Data

45EX57	REV. -

SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/10							
Poles:	4							
Ambient (ºC):	40							
Altitude (FASL)**:**								
No. of Speeds:	3							
HIGH SPEED								
Volts:	115	**115**	**208**	**230**	**277**	**460**	**100**	**200**
HZ:	60	**60**	**60**	**60**	**60**	**60**	**50**	**50**
Service Factor:	1							
Efficiency:	@ Rated Load	53.10						
Power Factor:	@ Rated Load	95.60						
Amps:	@ No Load	0.68						
	@ Rated Load	1.28						
	@ Locked Rotor	3.10						
RPM:	@ Rated Load	1602.00						
Torques:	Breakdown	8.70						
	Locked Rotor	3.70						
	Pull-Up	4.00						
	Rated Load	5.24						
	Service Factor	5.24						
Watts:	Rated Load	140.40						
Temperature Rise:	@ Rated Load	N/A						
Thermal Protector:	Trip Temp (ºC)	N/A						
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Cu						
Capacitor(s):	Run (MFD / Volts)							
	No. of Run Capacitors							
MEDIUM-HIGH SPEED								
HP:								
Volts:		**120**	**208**	**230**	**277**	**460**	**100**	**200**
HZ:		**60**	**60**	**60**	**60**	**60**	**50**	**50**
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Locked Rotor							
Torques:	Breakdown							
Oz.Ft. / Lb.In.	Locked Rotor							
(Circle One)	Pull-Up							
	Rated Load							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							

DRAWING NO.	PAGE 1 of 1	REV.
45EX57		-

Performance Data

45EX57	REV. -

SHADED-POLE & PSC MOTOR PERFORMANCE

MEDIUM-LOW SPEED								
HP:	0.081HP @1550 RPM							
Volts:	115	**115**	**208**	**230**	**277**	**460**	**100**	**200**
HZ:	60	**60**	**60**	**60**	**60**	**60**	**50**	**50**
Efficiency:	@ Rated Load	54.00						
Power Factor:	@ Rated Load	97.10						
Amps:	@ No Load	0.44						
	@ Rated Load	1.01						
Torques: **Oz.Ft. / Lb.In.** **(Circle One)**	Breakdown	6.11						
	Locked Rotor	3.70						
	Pull-Up	4.00						
	Rated Load	4.41						
Watts:	Rated Load	112.30						
Temperature Rise:	@ Rated Load	N/A						
Thermal Protector:	Trip Temp (ºC)	N/A						
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Al						

LOW SPEED								
HP:	0.059 HP @ 1550 RPM							
Volts:	115	**115**	**208**	**230**	**277**	**460**	**100**	**200**
HZ:	60	**60**	**60**	**60**	**60**	**60**	**50**	**50**
Efficiency:	@ Rated Load	52.10						
Power Factor:	@ Rated Load	97.70						
Amps:	@ No Load	0.33						
	@ Rated Load	0.76						
Torques: **Oz.Ft. / Lb.In.** **(Circle One)**	Breakdown	4.51						
	Locked Rotor	3.70						
	Pull-Up	4.00						
	Rated Load	3.22						
Watts:	Rated Load	85.05						
Temperature Rise:	@ Rated Load	N/A						

Notes:

DRAWING NO.	PAGE	REV.
45EX57		-

Performance Data

45EX57	REV. -

Dayton Manufacturing Company

Motor Description

Model:	K048MRS119201
Motor ID:	1/1
Poles:	4
Volts:	115
Frequency:	60
HP:	1/10
Speed:	1550
Phase:	1
Protector:	7AM033-A5

Test Conditions

Test Type:	Run	Run Cap:	0
Test Number:	1	Start Cap:	0µfd
Poles:	4	Environment:	21.5 Deg C 47 % RH 985 hPa
Volts:	115	Tested:	3/14/2016 8:46:07 AM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.30 Oz-Ft
Speed Conn:	M1	Windage Torque:	-0.93 Oz-Ft
TestBoard:	Amtps Performance Fixture #4		

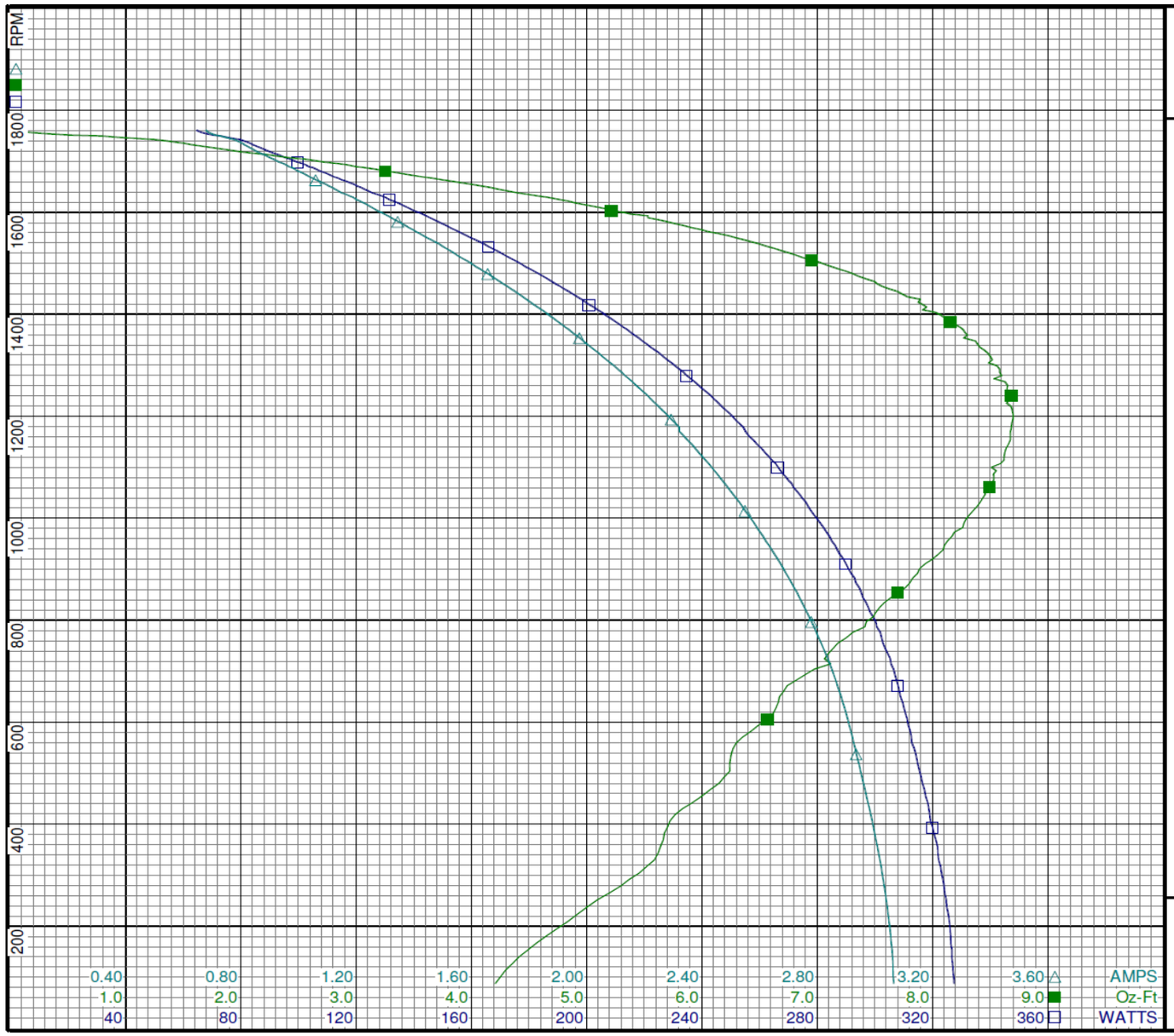
Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	237.6	293.5	0.678	64.6	1761	0.000	0.000	0.0	82.8
	115.0	232.4	285.4	0.776	79.6	1742	1.253	0.026	24.3	89.2
	115.0	228.5	279.6	0.848	89.0	1721	1.923	0.039	33.0	91.2
	115.0	223.8	272.7	0.933	99.6	1698	2.729	0.055	41.3	92.8
	115.0	219.5	266.7	1.017	109.8	1676	3.389	0.068	45.9	93.9
	115.0	214.9	260.8	1.106	120.5	1651	4.096	0.080	49.8	94.7
	115.0	210.0	254.9	1.201	131.6	1625	4.768	0.092	52.3	95.2
0.1 HP	**115.0**	**205.9**	**250.1**	**1.276**	**140.4**	**1602**	**5.243**	**0.100**	**53.1**	**95.6**
	115.0	204.8	248.6	1.297	142.9	1596	5.380	0.102	53.4	95.8
	115.0	199.1	242.3	1.396	154.0	1566	5.990	0.112	54.1	96.0
1550 RPM	**115.0**	**196.3**	**239.2**	**1.444**	**159.7**	**1550**	**6.288**	**0.116**	**54.2**	**96.1**
	115.0	193.1	235.7	1.500	165.9	1533	6.567	0.120	53.9	96.1
	115.0	186.8	229.2	1.604	177.4	1498	7.064	0.126	52.9	96.2
	115.0	180.2	222.3	1.710	189.2	1459	7.520	0.131	51.5	96.2
	115.0	173.5	216.0	1.817	200.9	1419	7.916	0.134	49.6	96.1
	115.0	166.5	209.3	1.924	212.6	1375	8.236	0.135	47.3	96.1
	115.0	159.5	203.1	2.028	223.8	1329	8.449	0.134	44.6	95.9
	115.0	152.2	197.0	2.133	234.7	1279	8.600	0.131	41.6	95.7
	115.0	144.9	191.2	2.236	245.6	1226	8.641	0.126	38.3	95.5
BDT OZ-FT	**115.0**	**141.7**	**188.7**	**2.280**	**250.1**	**1202**	**8.699**	**0.124**	**37.1**	**95.4**
	115.0	136.5	185.1	2.336	256.2	1162	8.674	0.120	34.9	95.4
	115.0	128.9	179.8	2.434	266.4	1099	8.510	0.111	31.2	95.2
	115.0	122.8	176.2	2.508	273.9	1046	8.455	0.105	28.7	95.0
	115.0	115.9	172.1	2.591	282.2	981	8.262	0.097	25.5	94.7
	115.0	108.4	168.3	2.673	289.9	910	7.936	0.086	22.1	94.3
	115.0	101.0	164.9	2.747	296.9	835	7.584	0.075	18.9	94.0
	115.0	93.6	162.0	2.813	302.8	755	7.179	0.065	15.9	93.6
	115.0	86.2	159.6	2.870	308.0	671	6.739	0.054	13.0	93.3
	115.0	79.1	158.3	2.916	312.3	582	6.428	0.045	10.6	93.1
	115.0	72.7	158.7	2.955	316.1	492	6.190	0.036	8.6	93.0
	115.0	67.2	159.7	2.995	320.0	394	5.701	0.027	6.2	92.9
	115.0	61.7	160.5	3.029	323.6	291	5.367	0.019	4.3	92.9
	115.0	56.2	161.9	3.054	326.3	180	4.646	0.010	2.3	92.9

DRAWING NO.	PAGE 1 of 6	REV.
45EX57		-

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

Performance Data

45EX57	REV. -



Curve Descriptions:

Motor(1) Test 1 Run 115V 60 Hz 4P
M1

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

Motor Ratings:

(1) K048MRS119201 ID: 1/1

DRAWING NO. 45EX57	PAGE 2 of 6	REV. -

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

Performance Data

45EX57	REV. -

Dayton Manufacturing Company

Motor Description

Model:	K048MRS119201
Motor ID:	1/1
Poles:	4
Volts:	115
Frequency:	60
HP:	1/10
Speed:	1550
Phase:	1
Protector:	7AM033-A5

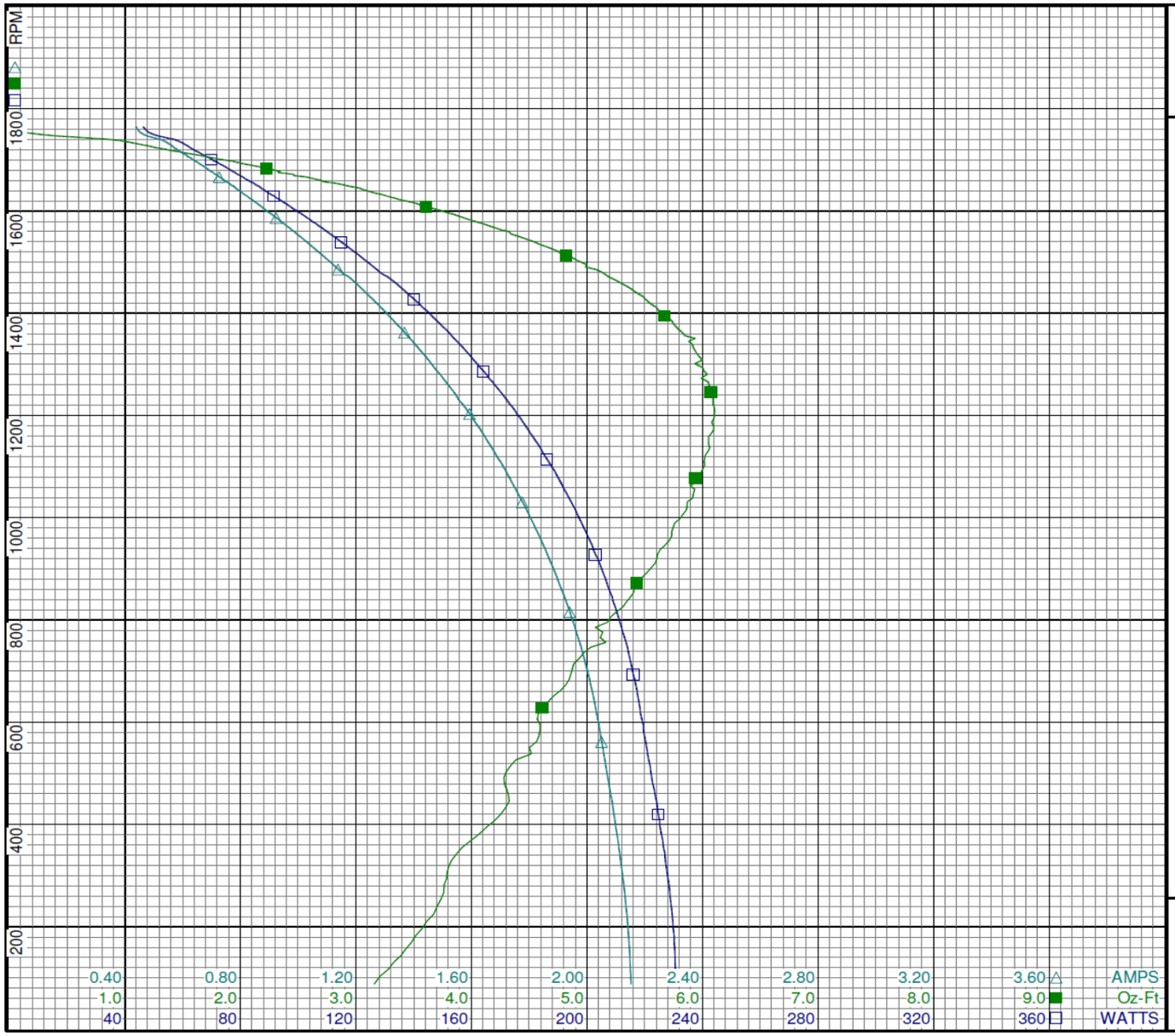
Test Conditions

Test Type:	Run	Run Cap:	0
Test Number:	2	Start Cap:	0µfd
Poles:	4	Environment:	21.8 Deg C 46 % RH 985 hPa
Volts:	115	Tested:	3/14/2016 10:07:22 AM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.28 Oz-Ft
Speed Conn:	M2	Windage Torque:	-0.84 Oz-Ft
TestBoard:	Amtps Performance	Fixture #4	

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	211.0	256.8	0.438	46.3	1764	0.000	0.000	0.0	91.9
	115.0	207.2	251.7	0.493	53.4	1744	0.575	0.012	16.7	94.3
	115.0	201.9	243.9	0.570	62.5	1723	1.266	0.026	31.0	95.3
	115.0	196.9	237.1	0.634	70.0	1701	1.820	0.037	39.3	96.0
	115.0	192.1	231.1	0.697	77.3	1677	2.344	0.047	45.2	96.4
	115.0	187.6	225.6	0.760	84.5	1654	2.813	0.055	48.9	96.7
	115.0	182.9	220.5	0.823	91.6	1629	3.265	0.063	51.6	96.8
	115.0	178.1	215.2	0.889	99.2	1601	3.730	0.071	53.4	97.1
	115.0	172.7	209.6	0.960	107.1	1571	4.156	0.078	54.1	97.1
1550 RPM	**115.0**	**169.4**	**206.1**	**1.005**	**112.3**	**1550**	**4.405**	**0.081**	**54.0**	**97.1**
	115.0	167.3	204.3	1.031	115.0	1539	4.550	0.083	54.1	97.0
	115.0	161.8	198.7	1.103	123.1	1503	4.909	0.088	53.2	97.1
	115.0	156.2	193.2	1.183	132.0	1467	5.226	0.091	51.6	97.0
	115.0	150.3	187.8	1.258	140.1	1427	5.503	0.093	49.8	96.8
	115.0	144.2	182.5	1.332	148.1	1384	5.736	0.095	47.6	96.7
	115.0	138.2	177.4	1.405	156.0	1339	5.911	0.094	45.1	96.6
	115.0	131.7	172.2	1.481	164.1	1287	6.012	0.092	41.9	96.3
	115.0	125.2	167.2	1.557	172.4	1229	6.089	0.089	38.6	96.2
BDT OZ-FT	**115.0**	**122.4**	**165.4**	**1.585**	**174.9**	**1210**	**6.106**	**0.088**	**37.5**	**96.0**
	115.0	118.2	162.7	1.630	179.5	1172	6.097	0.085	35.4	95.7
	115.0	112.3	158.8	1.694	186.1	1115	6.018	0.080	32.0	95.6
	115.0	107.1	155.8	1.746	191.4	1063	5.891	0.075	29.0	95.3
	115.0	101.0	152.6	1.806	197.4	998	5.803	0.069	26.0	95.1
	115.0	94.9	149.6	1.863	202.9	928	5.607	0.062	22.8	94.7
	115.0	88.7	146.7	1.915	207.9	854	5.405	0.055	19.7	94.4
	115.0	82.5	144.3	1.963	212.4	776	5.135	0.047	16.7	94.1
	115.0	76.2	142.1	2.004	216.0	693	4.859	0.040	13.8	93.7
	115.0	70.1	140.8	2.037	219.0	606	4.570	0.033	11.2	93.5
	115.0	64.7	140.7	2.065	221.8	514	4.336	0.027	8.9	93.4
	115.0	60.1	141.7	2.093	224.6	420	4.254	0.021	7.1	93.3
	115.0	55.7	142.4	2.119	227.4	317	3.802	0.014	4.7	93.3
	115.0	51.1	143.3	2.140	229.7	210	3.611	0.009	2.9	93.3
	115.0	46.8	144.8	2.151	230.8	103	3.207	0.004	1.3	93.3

Performance Data

45EX57	REV. -



Dayton

Curve Descriptions:

Motor(1) Test 2 Run 115V 60 Hz 4P
M2

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

Motor Ratings:

(1) K048MRS119201 ID: 1/1

DRAWING NO. 45EX57	PAGE 4 of 6	REV. -

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

Performance Data

45EX57	REV. -

Dayton Manufacturing Company

Motor Description

Model:	K048MRS119201
Motor ID:	1/1
Poles:	4
Volts:	115
Frequency:	60
HP:	1/10
Speed:	1550
Phase:	1
Protector:	7AM033-A5

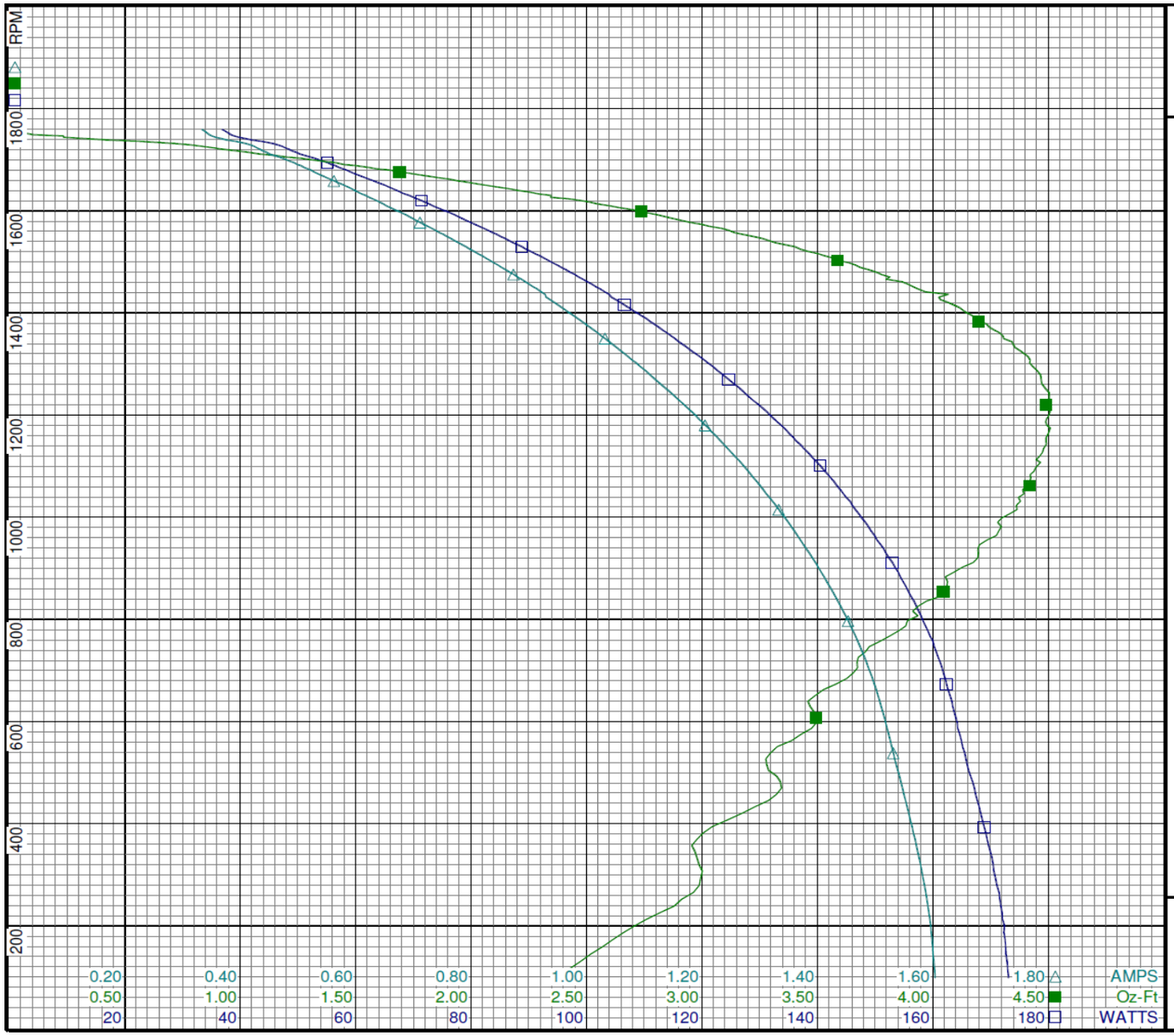
Test Conditions

Test Type:	Run	Run Cap:	0
Test Number:	3	Start Cap:	0µfd
Poles:	4	Environment:	21.8 Deg C 46 % RH 985 hPa
Volts:	115	Tested:	3/14/2016 10:09:23 AM
Hz:	60	Tested By:	Sharp, Gerald
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.25 Oz-Ft
Speed Conn:	M3	Windage Torque:	-0.80 Oz-Ft
TestBoard:	Amtps Performance Fixture #4		

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	187.5	226.9	0.334	36.85	1759	0.000	0.000	0.0	96.0
	115.0	184.2	222.0	0.377	42.07	1738	0.434	0.009	15.9	97.0
	115.0	178.2	213.9	0.439	48.96	1717	0.983	0.020	30.6	97.0
	115.0	173.1	207.3	0.493	55.15	1694	1.412	0.028	38.5	97.2
	115.0	168.8	202.2	0.538	60.29	1670	1.772	0.035	43.6	97.5
	115.0	164.1	197.4	0.587	65.79	1646	2.117	0.041	47.0	97.4
	115.0	159.9	192.7	0.636	71.37	1620	2.472	0.048	49.8	97.6
	115.0	155.5	188.1	0.687	77.11	1592	2.805	0.053	51.4	97.7
	115.0	151.0	183.6	0.738	82.87	1562	3.114	0.058	52.1	97.7
1550 RPM	**115.0**	**149.2**	**181.9**	**0.757**	**85.05**	**1550**	**3.217**	**0.059**	**52.1**	**97.7**
	115.0	146.1	179.0	0.791	88.81	1529	3.404	0.062	52.1	97.6
	115.0	141.0	174.3	0.846	94.87	1494	3.663	0.065	51.2	97.5
	115.0	136.1	169.8	0.901	100.91	1456	3.892	0.067	49.9	97.4
	115.0	130.7	165.2	0.951	106.59	1415	4.092	0.069	48.3	97.5
	115.0	125.4	161.0	1.005	112.48	1372	4.244	0.069	46.0	97.3
	115.0	120.0	156.8	1.059	118.05	1326	4.376	0.069	43.7	97.0
	115.0	114.0	152.4	1.119	124.63	1269	4.469	0.068	40.4	96.8
	115.0	107.5	147.9	1.182	131.26	1206	4.508	0.065	36.8	96.5
BDT OZ-FT	**115.0**	**104.4**	**145.9**	**1.211**	**134.27**	**1174**	**4.509**	**0.063**	**35.0**	**96.4**
	115.0	102.7	144.9	1.227	135.84	1156	4.490	0.062	33.9	96.3
	115.0	97.8	142.0	1.272	140.48	1101	4.453	0.058	31.0	96.1
	115.0	93.3	139.6	1.311	144.50	1046	4.395	0.055	28.2	95.8
	115.0	88.1	137.0	1.355	148.87	981	4.297	0.050	25.2	95.6
	115.0	82.8	134.7	1.396	152.97	911	4.175	0.045	22.1	95.3
	115.0	77.4	132.5	1.435	156.73	836	3.973	0.040	18.8	95.0
	115.0	72.0	130.3	1.470	160.02	757	3.771	0.034	15.8	94.7
	115.0	66.5	128.6	1.499	162.35	673	3.580	0.029	13.2	94.2
	115.0	61.4	127.8	1.521	164.31	586	3.474	0.024	11.0	94.0
	115.0	56.9	128.1	1.542	166.54	493	3.324	0.020	8.7	93.9
	115.0	53.0	129.0	1.564	168.87	394	3.044	0.014	6.3	93.9
	115.0	49.4	129.8	1.583	170.86	293	2.994	0.010	4.6	93.9
	115.0	45.5	130.8	1.597	172.29	187	2.661	0.006	2.6	93.8

Performance Data

45EX57	REV. -



Dayton®

Curve Descriptions:

Motor(1) Test 3 Run 115V 60 Hz 4P
M3

- □ SPEED vs WATTS
- ■ SPEED vs TORQUE
- △ SPEED vs ILine

Motor Ratings:

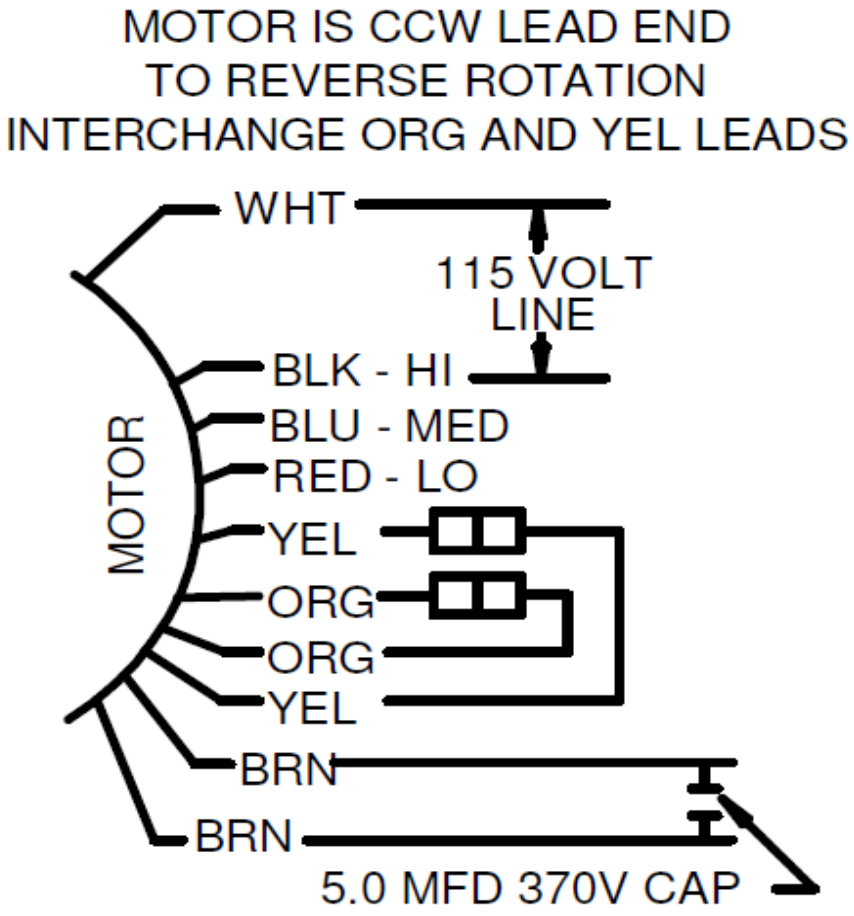
(1) K048MRS119201 ID: 1/1

DRAWING NO.	PAGE 6 of 6	REV.
45EX57		-

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

Wiring Diagram

45EX57	REV. -



DRAWING NO.	PAGE 1 of 1	REV.
45EX57		-

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

Dayton®

ROOM AIR CONDITIONER MOTOR

Part No
45EX57

Disconnect Power Before Making Any Electrical Connections or Changes

HP: 1/10
VOLTS: 115
AMPS: 1.43
RPM: 1550 / 3 SPD
DUTY: CONT
ENCL: OAO

PH: 1
HZ: 60
FR: 42Y
INS CL: B
AMB: 40°C

THERMALLY PROTECTED: AUTO

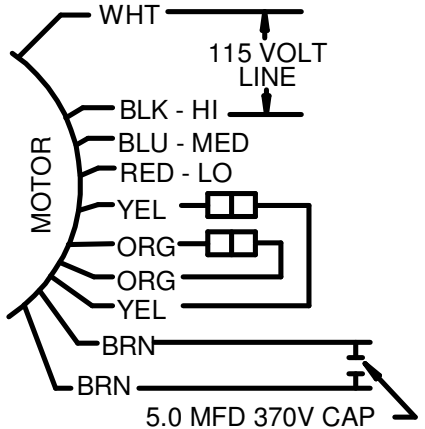
MFG. NO. PROT. CODE : 7A000 AVG.F.L

MTR REF: K48HXMRS-1192 EFF.

E37403

258501

MOTOR IS CCW LEAD END
TO REVERSE ROTATION
INTERCHANGE ORG AND YEL LEADS



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

MADE IN MEXICO