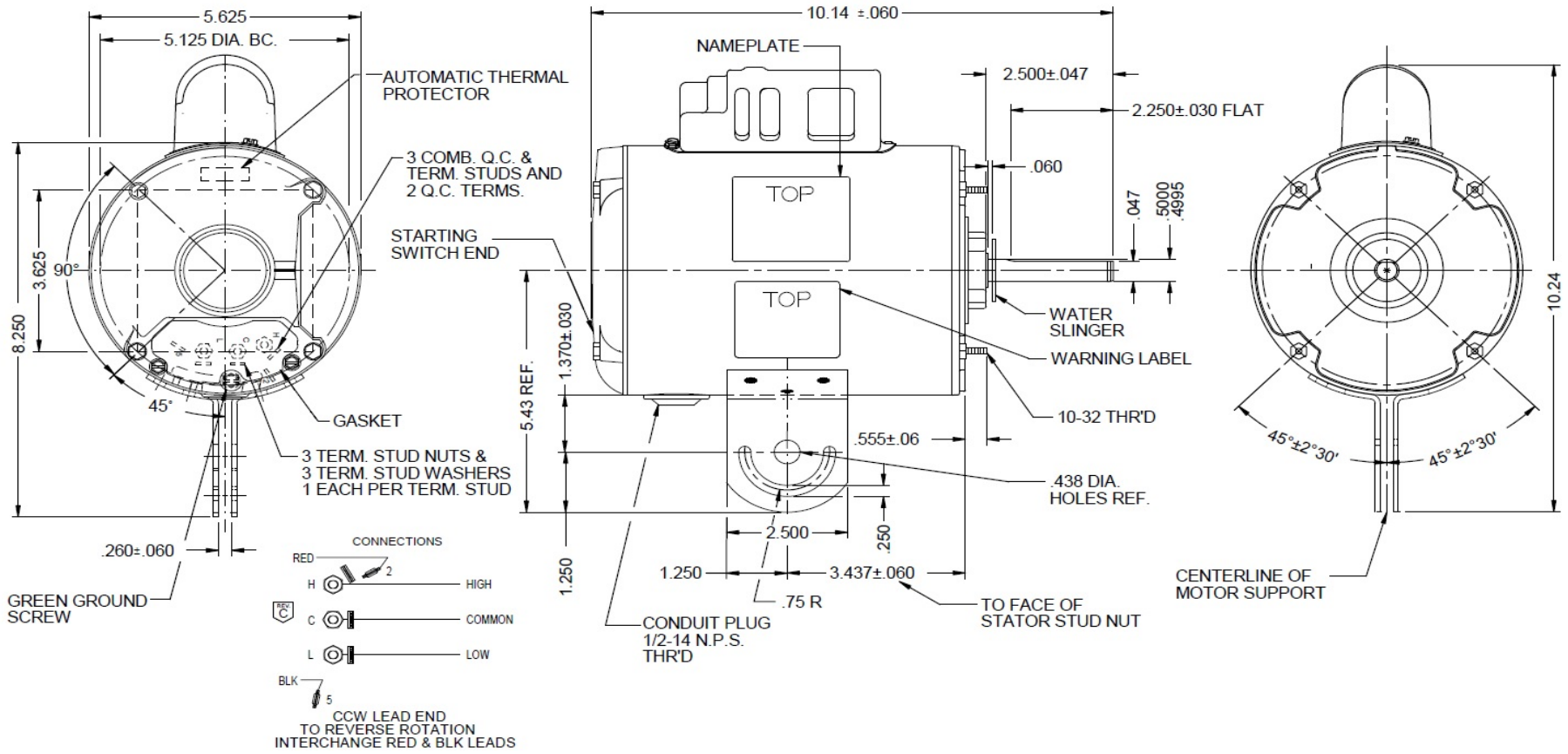
Dimensional Drawing

3M504BG

REV. -

MODEL	REF	CUSTOMER	HP	VOLTS	AMPS	HZ	RPM	ROTATION	CUSTOMER PT. NO.	DESCRIPTION / REMARKS
K55HXFAB-2343		GRAINGER	1/4	115	3.1	60	1075/2 SPD	CCW LEAD END REV	3M504BG	PSC, 48YZ, TEAO, BALL BEARING



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3M504BG		-

Performance Data

3M504BG	REV. -

SHADED-POLE & PSC MOTOR PERFORMANCE

HP:	1/4							
Poles:	6							
Ambient (°C):	40							
Altitude (FASL):								
No. of Speeds:	2							
HIGH SPEED								
Volts:	115	**115**						
HZ:	60	**60**						
Service Factor:	1							
Efficiency:	@ Rated Load	62.3						
Power Factor:	@ Rated Load	85.6						
Amps:	@ No Load							
	@ Rated Load	3.1 NP						
	@ Locked Rotor	7.3						
RPM:	@ Rated Load	1091						
Torques:	Breakdown	25.4						
	Locked Rotor	5.5						
	Pull-Up	4.9						
	Rated Load	19.5 NP						
	Service Factor	19.5 NP						
Watts:	Rated Load	304						
Temperature Rise:	@ Rated Load	-						
Thermal Protector:	Trip Temp (°C)	-						
Winding Material:	Start (Auxiliary)	Cu						
	Run (Main)	Cu						
Capacitor(s):	Run (MFD / Volts)	5 mFd, 440v						
	No. of Run Capacitors							
MEDIUM-HIGH SPEED								
HP:								
Volts:								
HZ:								
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Locked Rotor							
Torques: **Oz.Ft. / Lb.In.** (Circle One)	Breakdown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							

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

Performance Data

3M504BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	K055FAB2343 3M504BG		
Motor ID:	2		
Poles:	6		
Volts:	115		
Frequency:	60		
HP:	1/4		
Speed:	1075		
Phase:	1		
Protector:	7AM036-A5		

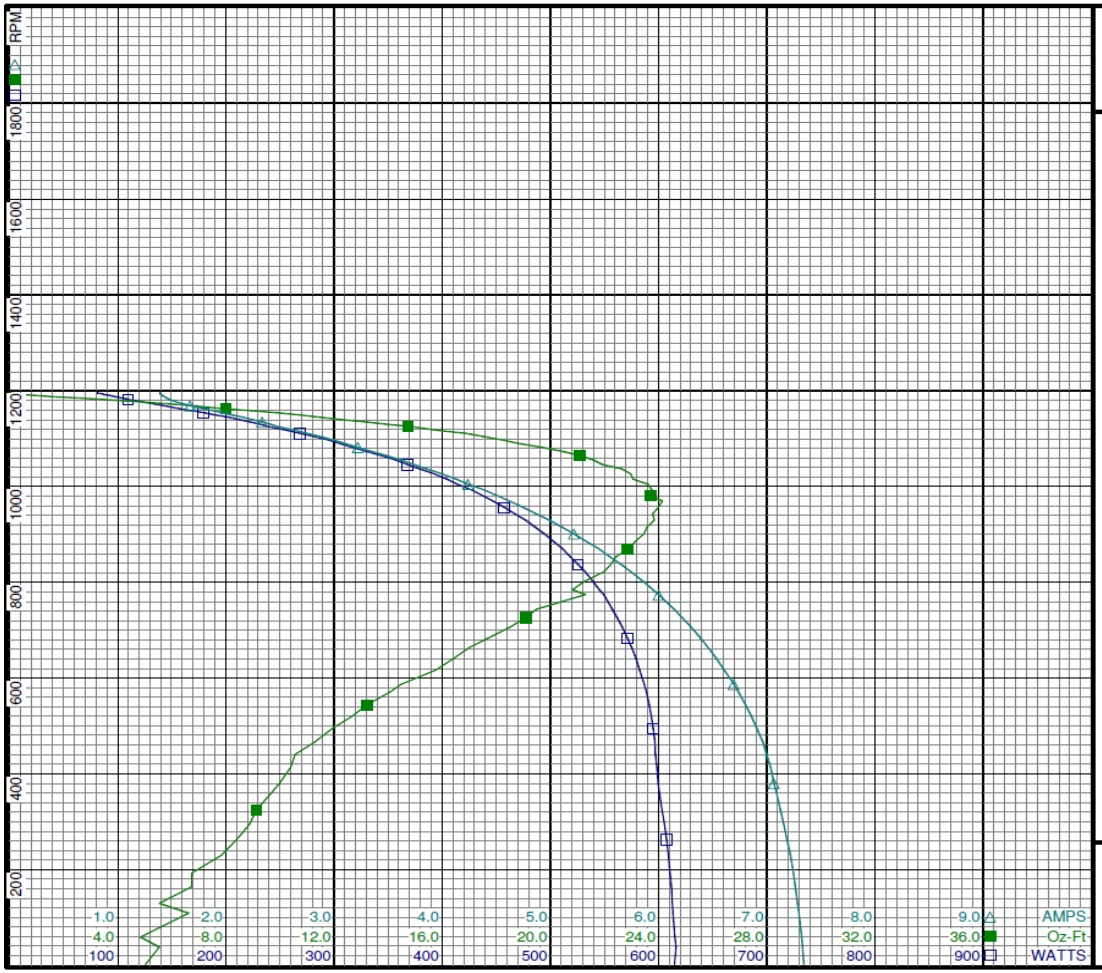
Test Conditions

Test Type:	Start	Run Cap:	5
Test Number:	8	Start Cap:	0µfd
Poles:	6	Environment:	22.4 Deg C 28 % RH 968 hPa
Volts:	115	Tested:	2/12/2016 2:22:56 PM
Hz:	60	Tested By:	Navarro, Susana
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.12 Oz-Ft
Speed Conn:	M1	Windage Torque:	-0.83 Oz-Ft
TestBoard:	CMD InLine Three Phase #2 Fixture #1		

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	51.2	219.5	7.330	615.9	38	5.53	0.002	0.3	73.1
PUT OZ-FT	**115.0**	**51.0**	**218.1**	**7.321**	**614.9**	**59**	**4.85**	**0.003**	**0.4**	**73.0**
	115.0	51.1	214.5	7.282	612.5	129	5.54	0.009	1.0	73.1
	115.0	52.7	209.9	7.216	608.9	230	7.84	0.021	2.6	73.4
	115.0	55.1	205.4	7.124	603.0	325	9.14	0.035	4.4	73.6
	115.0	60.0	201.8	7.034	598.3	413	10.39	0.051	6.4	74.0
	115.0	68.0	200.6	6.908	594.8	494	11.93	0.070	8.8	74.9
	115.0	76.6	200.6	6.736	588.6	571	14.06	0.095	12.1	76.0
	115.0	85.4	200.7	6.531	578.9	641	16.42	0.125	16.1	77.1
	115.0	95.0	201.8	6.299	566.3	706	18.50	0.156	20.5	78.2
	115.0	106.7	204.6	6.000	549.2	774	21.29	0.196	26.6	79.6
	115.0	116.8	208.5	5.743	532.0	822	21.98	0.215	30.2	80.6
	115.0	128.3	214.0	5.446	511.2	869	22.87	0.237	34.5	81.6
	115.0	141.4	222.0	5.101	485.4	915	23.57	0.257	39.5	82.8
	115.0	154.4	231.5	4.745	457.3	957	23.99	0.273	44.6	83.8
	115.0	167.4	242.2	4.386	427.1	992	23.75	0.281	49.0	84.7
	115.0	181.1	255.0	3.997	392.5	1026	22.96	0.280	53.3	85.4
	115.0	194.4	268.5	3.614	356.6	1055	21.58	0.271	56.7	85.8
	115.0	207.5	283.2	3.222	317.4	1081	19.71	0.254	59.6	85.6
	115.0	219.3	296.8	2.865	281.1	1104	17.48	0.230	61.0	85.3
	115.0	231.8	313.0	2.461	237.1	1126	14.74	0.198	62.2	83.8
	115.0	238.6	322.3	2.240	211.9	1140	12.23	0.166	58.4	82.3
	115.0	245.6	333.8	1.964	179.5	1154	9.84	0.135	56.2	79.5
	115.0	250.9	344.9	1.724	150.0	1165	7.34	0.102	50.6	75.7
6.425 OZ-FT	**115.0**	**252.9**	**349.6**	**1.645**	**139.0**	**1170**	**6.43**	**0.089**	**48.0**	**73.5**
	115.0	255.6	355.5	1.554	125.7	1175	5.17	0.072	42.9	70.3
	115.0	259.1	362.8	1.471	108.9	1182	3.21	0.045	31.0	64.4
	115.0	262.2	368.5	1.419	94.6	1188	1.22	0.017	13.6	58.0
	115.0	264.0	371.6	1.394	85.5	1193	0.21	0.003	2.6	53.3
	115.0	264.9	372.5	1.387	81.3	1195	0.00	0.000	0.0	51.0

Performance Data

3M504BG	REV. -



Dayton

Curve Descriptions:

Motor(1) Test 8 Start 115V 60 Hz 6P
M1 5ufd Run

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

Motor Ratings:

(1) K055FAB2343 3M504BG

DRAWING NO.	PAGE 2 of 4	REV.
3M504BG		-

Performance Data

3M504BG	REV. -

Dayton Manufacturing Company

Motor Description

Model:	K055FAB2343	3M504BG
Motor ID:	2	
Poles:	6	
Volts:	115	
Frequency:	60	
HP:	1/4	
Speed:	1075	
Phase:	1	
Protector:	7AM036-A5	

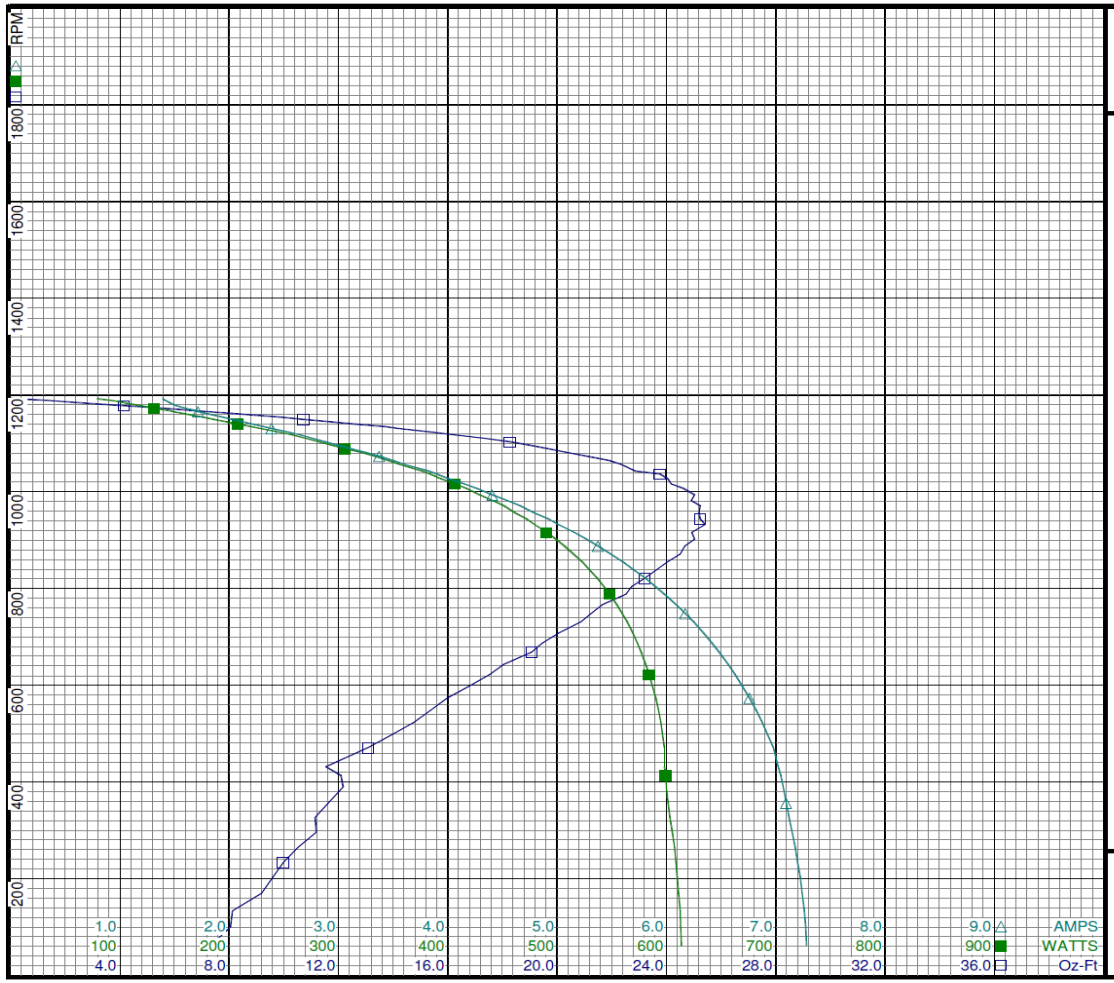
Test Conditions

Test Type:	Run	Run Cap:	5
Test Number:	6	Start Cap:	0µfd
Poles:	6	Environment:	22.4 Deg C 28 % RH 968 hPa
Volts:	115	Tested:	2/12/2016 2:21:20 PM
Hz:	60	Tested By:	Navarro, Susana
Rotation:		Gear Ratio:	1:1
Special Cond:		Bearing Friction:	-0.13 Oz-Ft
Speed Conn:	M1	Windage Torque:	-0.75 Oz-Ft
TestBoard:	CMD InLine Three Phase #2 Fixture #1		

Special Points	Vline(V)	Vaux(V)	Vcap(V)	Iline(A)	Watts	RPM	Tq(Oz-ft)	HP	Eff(%)	PF(%)
	115.0	264.9	372.5	1.391	79.2	1193	0.00	0.000	0.0	49.5
	115.0	262.8	368.3	1.412	91.3	1189	1.29	0.018	15.0	56.2
	115.0	259.6	362.5	1.463	106.4	1183	2.77	0.039	27.3	63.2
	115.0	255.6	354.9	1.554	124.8	1175	4.87	0.068	40.7	69.9
	115.0	250.9	345.1	1.717	148.5	1165	7.19	0.100	50.1	75.2
7.33 OZ-FT	**115.0**	**250.7**	**344.5**	**1.728**	**149.9**	**1165**	**7.33**	**0.102**	**50.6**	**75.4**
	115.0	246.1	334.9	1.936	175.5	1154	9.84	0.135	57.5	78.8
	115.0	239.0	323.3	2.213	208.0	1140	12.61	0.171	61.4	81.7
	115.0	229.7	310.1	2.542	245.8	1123	15.42	0.206	62.6	84.1
	115.0	219.0	296.5	2.877	282.0	1103	18.27	0.240	63.5	85.2
0.25 HP	**115.0**	**214.3**	**290.9**	**3.025**	**297.4**	**1094**	**19.20**	**0.250**	**62.7**	**85.5**
19.53 OZ-FT	**115.0**	**212.4**	**288.6**	**3.086**	**303.7**	**1091**	**19.53**	**0.254**	**62.3**	**85.6**
	115.0	207.5	282.8	3.239	319.6	1082	20.30	0.261	61.0	85.8
	115.0	194.9	269.0	3.613	356.3	1056	22.37	0.281	58.9	85.7
	115.0	181.5	255.1	4.012	394.0	1026	24.05	0.294	55.7	85.4
	115.0	167.6	242.3	4.408	429.2	993	25.03	0.296	51.4	84.7
	115.0	154.3	231.0	4.787	461.2	957	25.20	0.287	46.4	83.8
BDT OZ-FT	**115.0**	**145.9**	**224.8**	**5.011**	**479.3**	**932**	**25.42**	**0.282**	**43.9**	**83.2**
	115.0	140.6	221.1	5.157	490.4	916	24.93	0.272	41.3	82.7
	115.0	128.1	213.5	5.490	515.0	871	24.50	0.254	36.8	81.6
	115.0	116.0	207.6	5.806	536.8	821	23.21	0.227	31.5	80.4
	115.0	104.7	203.7	6.089	554.5	766	21.66	0.198	26.6	79.2
	115.0	94.5	201.4	6.342	569.3	707	20.05	0.169	22.1	78.1
	115.0	85.1	200.4	6.565	581.1	643	18.05	0.138	17.7	77.0
	115.0	76.4	200.3	6.760	590.3	573	15.97	0.109	13.8	75.9
	115.0	67.9	200.6	6.924	596.4	499	14.00	0.083	10.4	74.9
	115.0	59.8	201.5	7.048	599.4	413	12.09	0.059	7.4	74.0
	115.0	55.0	204.9	7.122	603.0	327	11.14	0.043	5.4	73.6
	115.0	52.6	209.5	7.200	608.6	233	9.98	0.028	3.4	73.5
	115.0	51.1	213.8	7.261	612.6	133	8.12	0.013	1.6	73.4

Performance Data

3M504BG	REV. -



Curve Descriptions:

Motor(1) Test 6 Run 115V 60 Hz 6P
M1 5ufd Run

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

Motor Ratings:

(1) K055FAB2343 3M504BG

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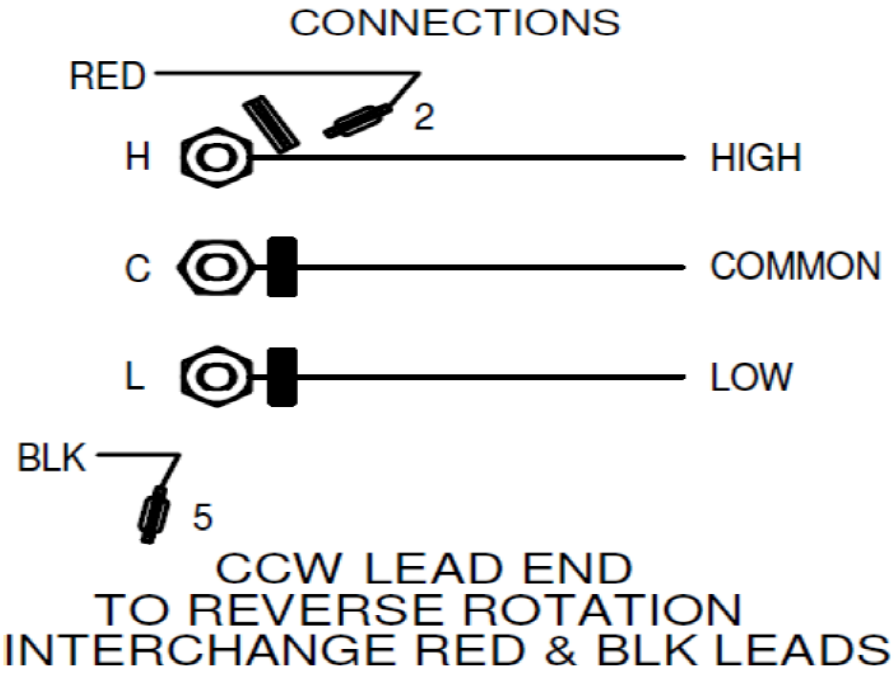
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Wiring Diagram

3M504BG	REV. -



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3M504BG		-

Dayton®

PEDESTAL FAN MOTOR

BAR CODE

Part No 3M504BG

HP: 1/4
VOLTS: 115
AMPS: 3.1
RPM: 1075/2 SPD
DUTY: CONT
SF: 1.0
KVA CODE: A
ENCL: TEAO

PH: 1
HZ: 60
FR: 48YZ
INS CL: B
AMB: 40 °C
SFA:

THERMALLY PROTECTED: AUTO

MFG. NO. [ ] [ ] PROT. CODE : [7A010] AVG. F.L. EFF.

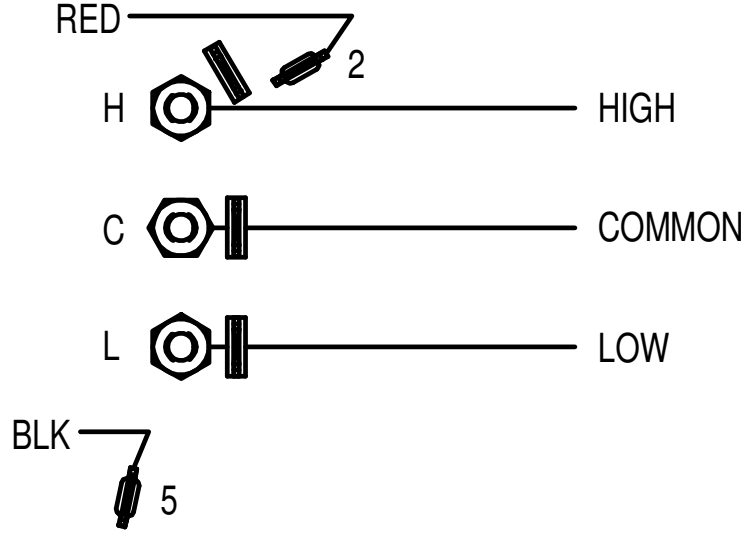
MTR REF: K55HXFAB-2343

E37403

258501

Disconnect Power Before Making Any Electrical Connections or Changes

CONNECTIONS



CCW LEAD END
TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS

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