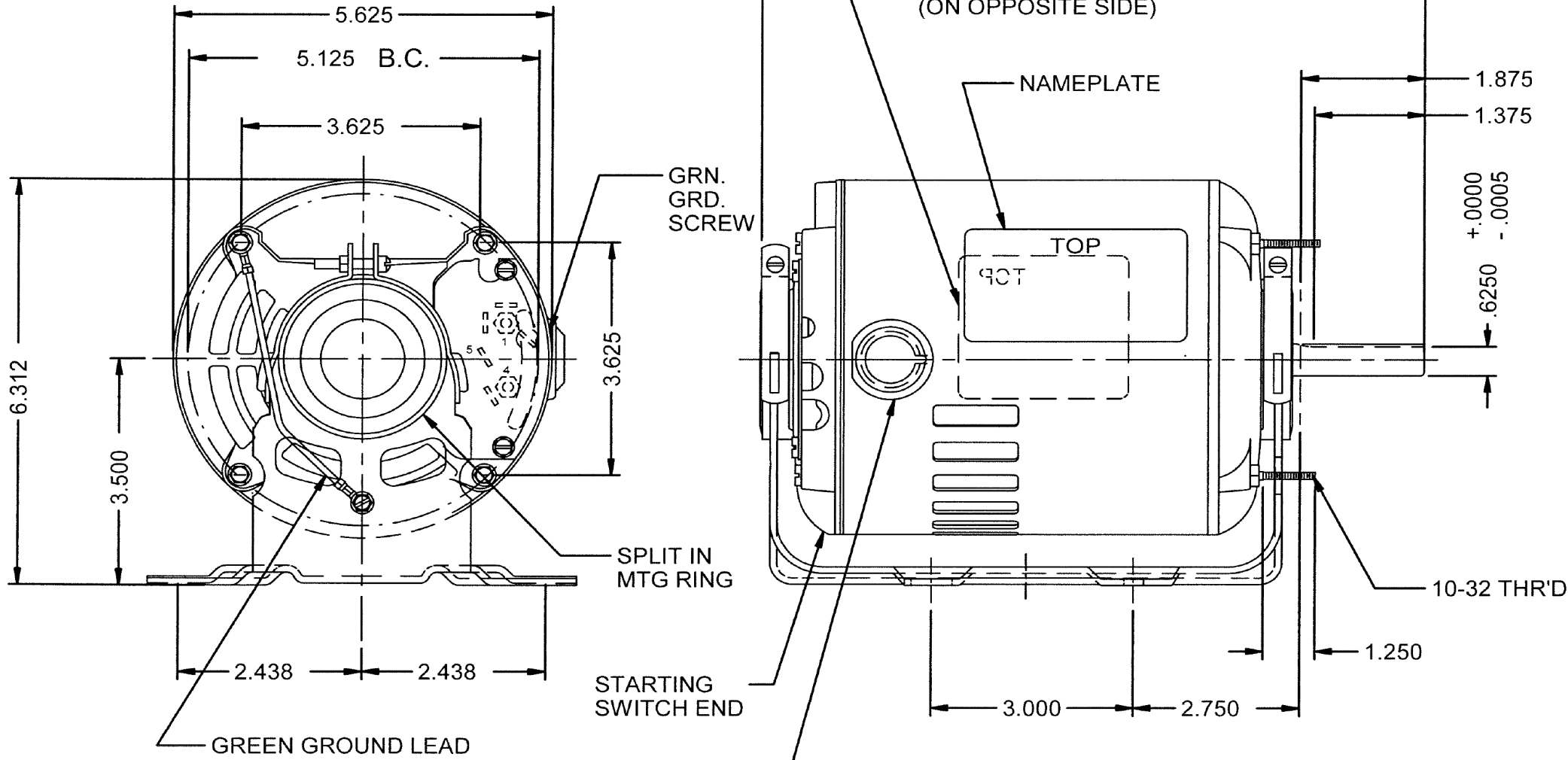


Dimensional Drawing



MODEL	HP.	VOLTS	HZ.	R.P.M.	BEARING	ROTATION	CUST. PT. NO.
S55RLK-8341	1/2	230	60	1725	BALL	CW /CCW	5K288BE

DRAWING NO.	PAGE 1 of 1	REV.
	5K288BE	-

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

5K288BE

 REV.
-

SPLIT-PHASE & CAPACITOR START MOTOR PERFORMANCE

HP:	1/2							
Poles:	4							
Ambient (°C):	40							
Altitude (FASL):								
No. of Speeds:	1							
Volts:	230	230						
HZ:	60	60						
Service Factor:	1.25							
Efficiency:	@ Rated Load	59.70						
Power Factor:	@ Rated Load	58.90						
Amps:	@ No Load	4.00						
	@ Rated Load	4.61						
	@ Service Factor	4.95						
	@ Locked Rotor	33.70						
RPM:	@ Rated Load	1755						
Torques:	Breakdown	71.3						
	Locked Rotor	46.95						
	Pull-Up	44.83						
	Rated Load	23.94						
	Service Factor	30.14						
Watts:	Rated Load	625						
KVA Code:								
Temperature Rise:	@ Rated Load	60.80						
	@ Service Factor	69.90						
Thermal Protector:	Trip Temp (°C)	N/A						
Winding Material:	Start (Auxiliary)	AI						
	Run (Main)	AI						
Capacitor(s):	Start (MFD / Volts)	N/A						
	No. of Start Capacitors	N/A						
	Run (MFD / Volts)	N/A						
	No. of Run Capacitors	N/A						

LOW SPEED PERFORMANCE DATA:

HP:								
Poles:								
Volts:		230						
HZ:		60						
Efficiency:	@ Rated Load							
Power Factor:	@ Rated Load							
Amps:	@ No Load							
	@ Rated Load							
	@ Service Factor							
	@ Locked Rotor							
Torques:	BreakDown							
	Locked Rotor							
	Pull-Up							
	Rated Load							
	Service Factor							
Watts:	@ Rated Load							
Temperature Rise:	@ Rated Load							
	@ Service Factor							

 DRAWING NO. PAGE 1 of 1
 5K288BE

 REV.
-

Performance Data



5K288BE		REV. -						
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model: S055RLK8341		Test Type: Start		Run Cap: 0				
Motor ID: 1		Test Number: 10		Start Cap: 0µfd				
Poles: 4		Poles: 4						
Volts: 230		Volts: 230		Tested: 5/15/2012 2:04:20 PM				
Frequency: 60		Hz: 60		Tested By: Sharp, Gerald				
HP: 1/2		Rotation:		Gear Ratio: 1:1				
Speed: 1725		Special Cond: 2 Line Test		Bearing Friction: -0.99 Oz-Ft				
Phase: 1		Speed Conn:		Windage Torque: -2.96 Oz-Ft				
Protector: NONE		TestBoard:		Amps Performance		Fixture #4		
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	33.70	6528	49	46.95	0.027	0.3	84.2
	230.0	33.54	6469	72	48.49	0.042	0.5	83.9
	230.0	33.30	6436	213	45.19	0.115	1.3	84.0
PUT OZ-FT	230.0	33.23	6421	238	44.83	0.127	1.5	84.0
	230.0	32.96	6391	377	46.86	0.210	2.5	84.3
	230.0	32.54	6319	535	49.24	0.314	3.7	84.4
	230.0	32.10	6263	676	52.12	0.419	5.0	84.8
	230.0	31.58	6192	804	55.99	0.536	6.5	85.2
	230.0	31.00	6098	917	59.83	0.653	8.0	85.5
	230.0	30.35	6000	1020	63.85	0.775	9.6	86.0
	230.0	29.70	5896	1109	66.72	0.881	11.1	86.3
	230.0	28.99	5776	1190	68.60	0.972	12.6	86.6
	230.0	28.31	5666	1257	69.98	1.047	13.8	87.0
	230.0	27.63	5544	1315	70.19	1.099	14.8	87.2
	230.0	26.94	5417	1369	69.24	1.128	15.5	87.4
	230.0	26.24	5293	1417	67.79	1.144	16.1	87.7
	230.0	13.37	2560	1452	61.96	1.071	31.2	83.2
	230.0	12.00	2306	1517	67.04	1.211	39.2	83.6
	230.0	11.14	2147	1555	66.93	1.239	43.0	83.8
	230.0	10.26	1981	1587	65.43	1.236	46.6	83.9
	230.0	9.42	1810	1617	63.06	1.214	50.0	83.6
	230.0	8.63	1651	1640	59.85	1.169	52.8	83.2
	230.0	7.96	1512	1661	56.22	1.112	54.9	82.5
	230.0	7.30	1365	1680	52.26	1.045	57.1	81.3
	230.0	6.66	1216	1698	47.47	0.959	58.8	79.4
	230.0	6.01	1053	1714	41.31	0.843	59.7	76.2
	230.0	5.47	894	1732	34.63	0.714	59.6	71.1
	230.0	4.87	737	1748	27.64	0.575	58.2	65.8
	230.0	4.49	572	1764	19.18	0.403	52.5	55.4
	230.0	4.20	394	1778	9.19	0.195	36.9	40.8
	230.0	4.02	238	1793	0.00	0.000	0.0	25.7
						DRAWING NO.	PAGE 1 of 4	
						5K288BE		REV.
								-

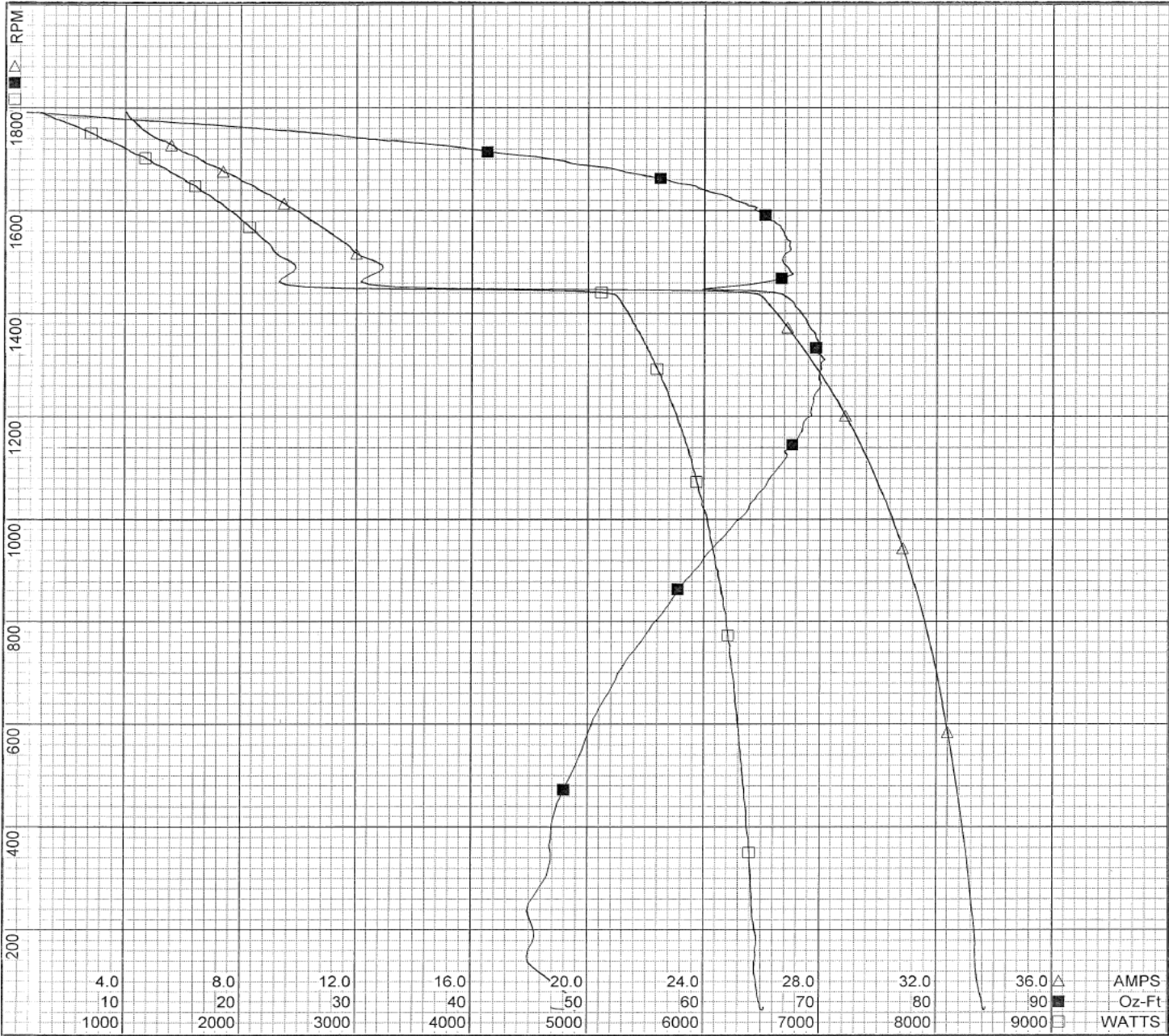
Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Performance Data



5K288BE

REV.
-



Curve Descriptions:
Motor(1) Test 10 Start 230V 60 Hz 4P
2 Line Test Attempt #1
□ SPEED vs WATTS
■ SPEED vs TORQUE
△ SPEED vs ILine

Motor Ratings:
(1) S055RLK8341 ID: 1

Performance Data



5K288BE		REV. -						
Dayton Manufacturing Company								
Motor Description				Test Conditions				
Model: S055RLK8341		Test Type: Run		Run Cap: 0				
Motor ID: 1		Test Number: 20		Start Cap: 0µfd				
Poles: 4		Poles: 4						
Volts: 230		Volts: 230		Tested: 5/15/2012 2:02:35 PM				
Frequency: 60		Hz: 60		Tested By: Sharp, Gerald				
HP: 1/2		Rotation:		Gear Ratio: 1:1				
Speed: 1725		Special Cond:		Bearing Friction: -0.61 Oz-Ft				
Phase: 1		Speed Conn:		Windage Torque: -3.03 Oz-Ft				
Protector: NONE		TestBoard:		Amps Performance		Fixture #4		
Special Points	Vline (V)	Iline (A)	Watts	RPM	Tq (Oz-ft)	HP	Eff (%)	PF (%)
	230.0	3.89	193	1793	0.00	0.000	0.0	21.6
	230.0	3.90	275	1785	4.49	0.095	25.9	30.6
	230.0	4.00	365	1775	9.92	0.210	42.8	39.6
	230.0	4.25	503	1765	17.61	0.370	54.9	51.4
0.5 HP	230.0	4.61	625	1755	23.94	0.500	59.7	58.9
	230.0	4.63	631	1754	24.23	0.506	59.8	59.2
24.4 OZ-FT	230.0	4.64	635	1754	24.40	0.509	59.9	59.4
30 OZ-FT	230.0	4.94	747	1742	30.00	0.622	62.2	65.7
	230.0	5.01	775	1740	31.49	0.652	62.8	67.3
1725 RPM	230.0	5.53	936	1725	38.86	0.798	63.6	73.7
	230.0	5.53	938	1725	38.92	0.799	63.6	73.7
	230.0	6.34	1132	1705	46.90	0.952	62.7	77.7
	230.0	7.13	1325	1687	53.38	1.072	60.4	80.8
	230.0	8.11	1552	1657	60.37	1.191	57.2	83.2
	230.0	9.38	1817	1620	66.35	1.280	52.6	84.2
	230.0	10.64	2062	1581	70.35	1.324	47.9	84.2
BDT OZ-FT	230.0	11.82	2283	1539	71.25	1.305	42.7	84.0
	230.0	11.95	2309	1533	71.22	1.300	42.0	84.0
	230.0	13.08	2503	1484	70.34	1.243	37.0	83.2
	230.0	14.11	2673	1432	68.15	1.162	32.4	82.4
	230.0	14.98	2807	1380	64.73	1.064	28.3	81.5
	230.0	15.76	2923	1327	61.02	0.964	24.6	80.7
	230.0	16.42	3014	1273	56.84	0.862	21.3	79.8
	230.0	17.02	3094	1218	52.53	0.762	18.4	79.0
	230.0	17.56	3163	1160	47.97	0.663	15.6	78.3
	230.0	18.07	3227	1096	42.95	0.560	13.0	77.6
	230.0	18.54	3278	1026	37.88	0.463	10.5	76.9
	230.0	18.97	3324	954	32.62	0.370	8.3	76.2
	230.0	19.33	3359	878	27.42	0.286	6.4	75.5
	230.0	19.65	3391	802	22.80	0.218	4.8	75.1
	230.0	19.93	3416	720	18.25	0.156	3.4	74.5
	230.0	20.17	3436	634	13.89	0.105	2.3	74.1
	230.0	20.36	3450	546	10.24	0.067	1.4	73.7
	230.0	20.50	3461	452	6.46	0.035	0.7	73.4
	230.0	20.62	3470	351	3.77	0.016	0.3	73.2
	230.0	20.68	3474	249	1.90	0.006	0.1	73.0
	230.0	20.70	3471	138	1.02	0.002	0.0	72.9

DRAWING NO.

PAGE 3 of 4

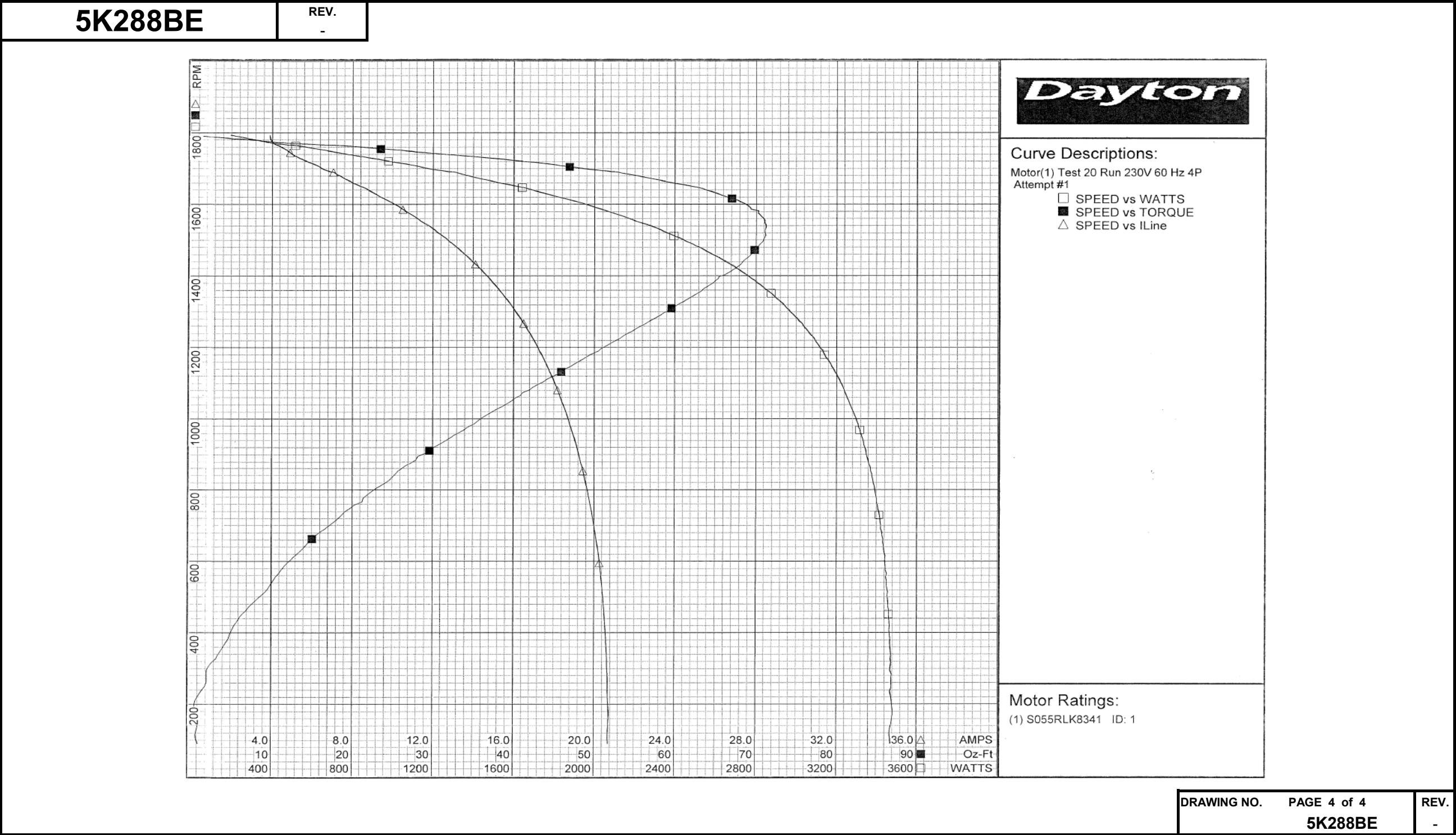
REV.

5K288BE

DRAWING NO.	PAGE 3 of 4	REV.
5K288BE		-

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

Performance Data

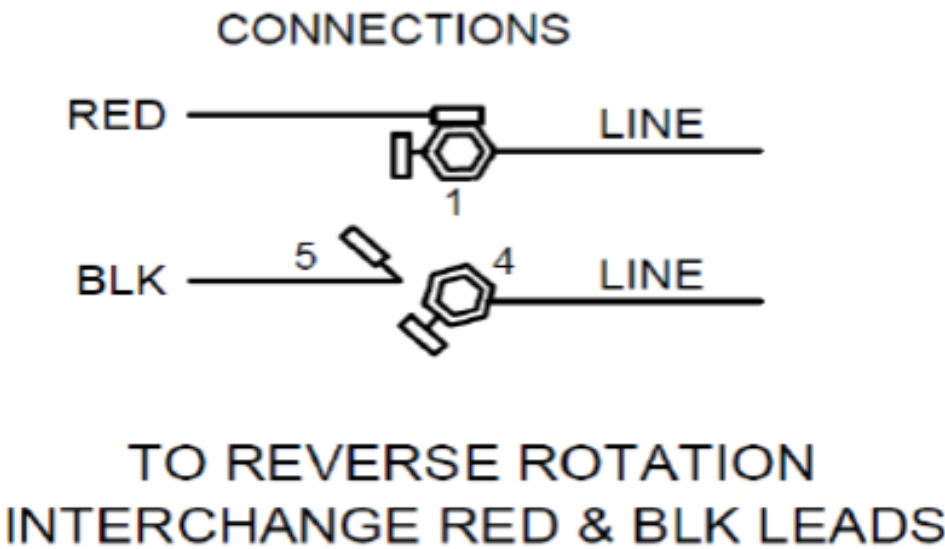
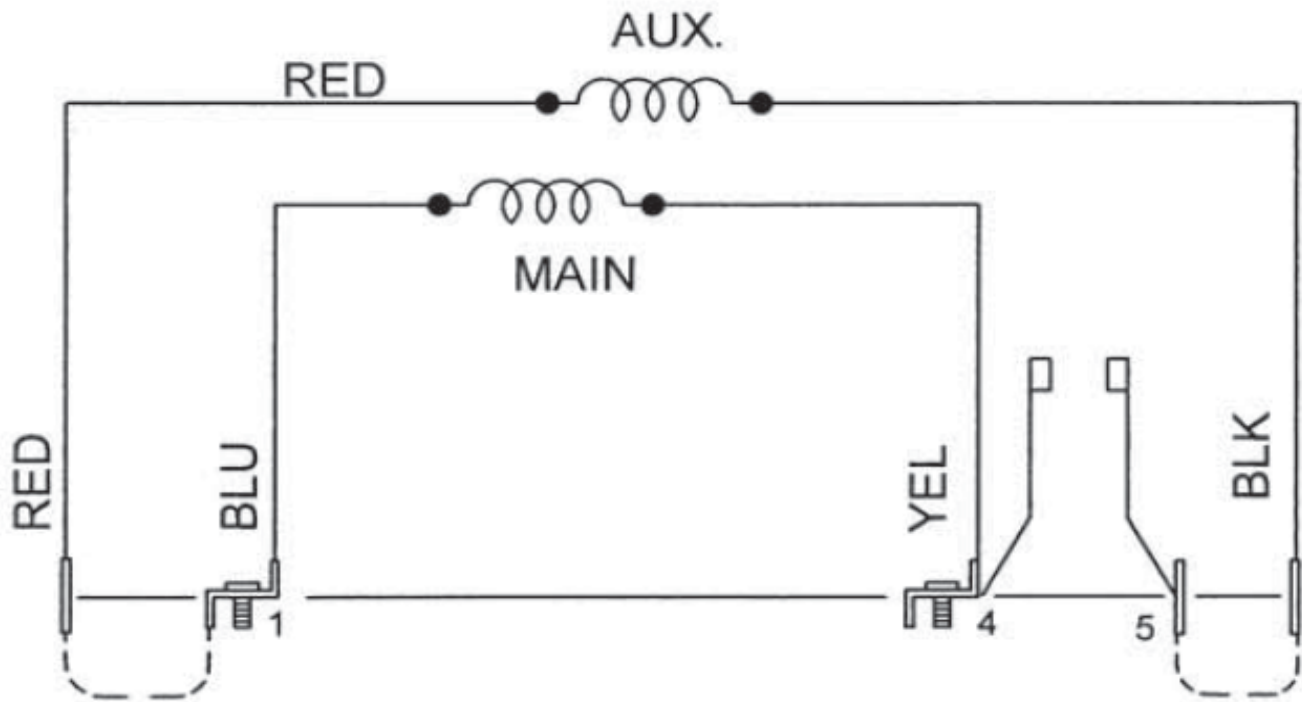


Dayton Electric Mfg. Co. Lake Forest, IL 60045 USA

Wiring Diagram



5K288BE	REV. -
---------	-----------



LINE CONN: UNGROUNDED-1; GROUNDED-4
ROTATION SHOWN: C.CW. SW. END. TO REV.
INTERCHANGE RED & BLK. LEADS.

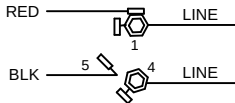
DRAWING NO.	PAGE 1 of 1	REV.
5K288BE		-

Dayton®Part
No**5K288BE****SPLIT PHASE
MOTOR****HP: 1/2****PH: 1****VOLTS: 230****HZ: 60****AMPS: 4.6****FR: 56****RPM: 1725****INS CL: B****DUTY: CONT****AMB: 40 °C****SF: 1.25****SFA: 5.0****KVA CODE : R****ENCL: ODP****MTR REF: S55RLK-8341****THERMALLY PROTECTED: NONE**MFG. NO.  

258501



E47479

**Disconnect Power Before Making
Any Electrical Connections or Changes****CONNECTIONS****TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS**