

## PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 254TTDBD6026  
Catalog No: GT0059  
15,1800,DP,254T,3/60/230/460  
Open Drip Proof (ODP)



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**REGAL**



### Nameplate Specifications

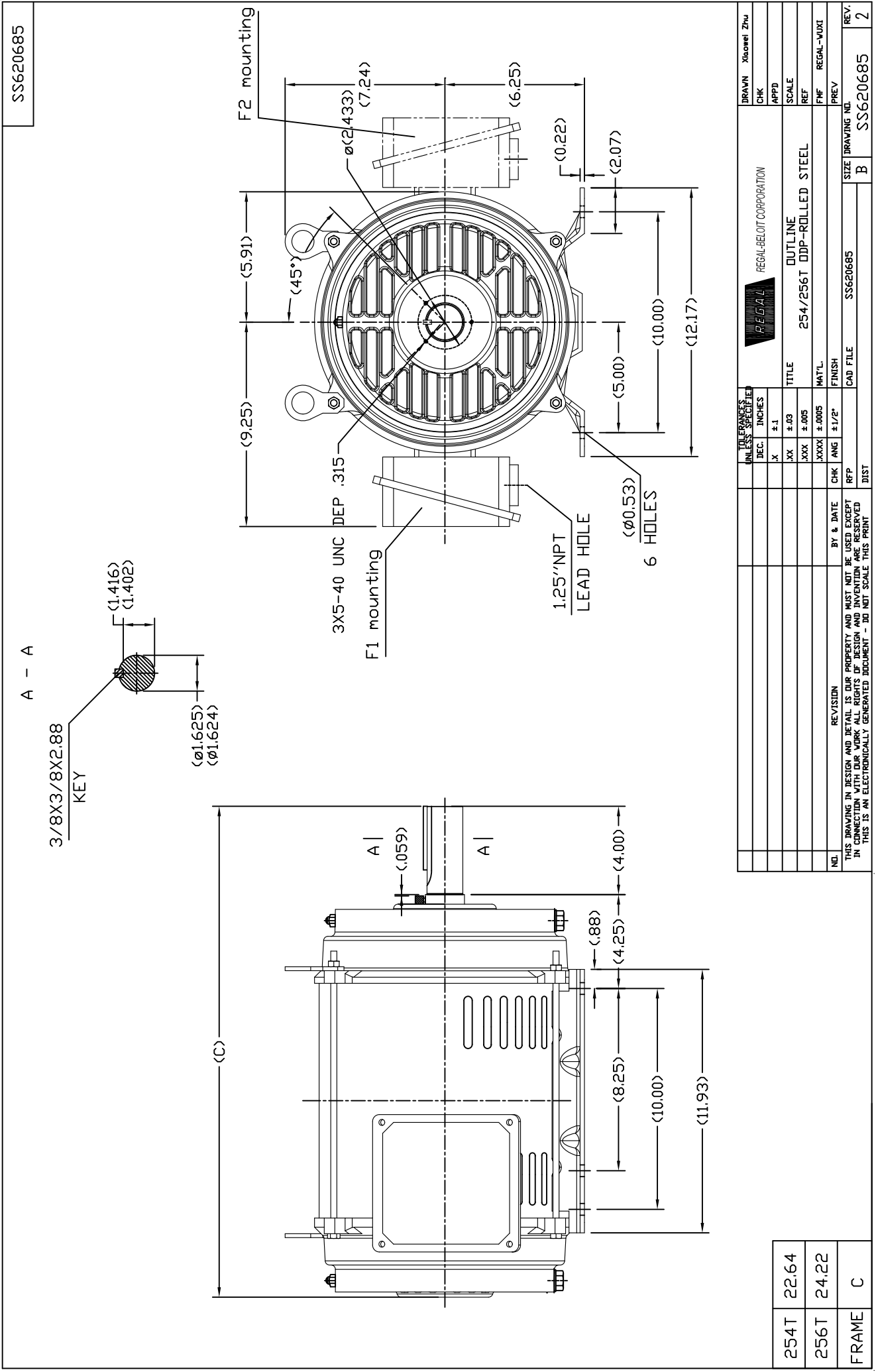
Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	37.5/18.8 A	Speed	1774 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	254T
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6208	UL	Recognized
CSA	Y	CE	Y
IP Code	12		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	T
Overall Length	22.64 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS620685	Connection Diagram	A-EE7308K

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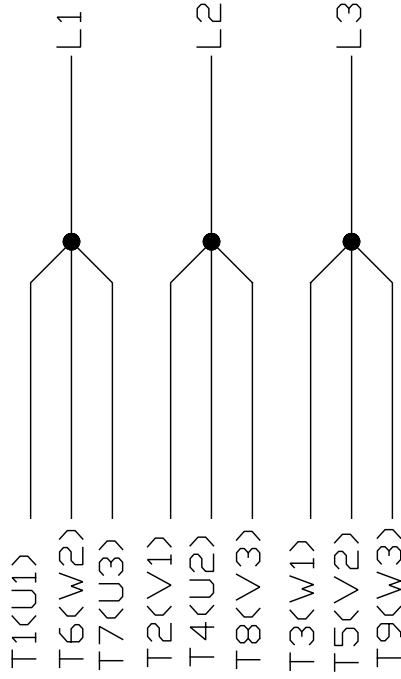
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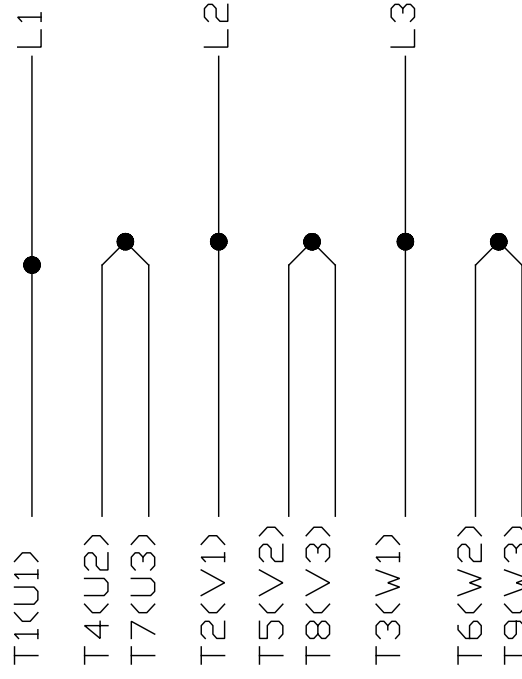
SS620685

254T	22.64	DRAWN	Xiaowei Zhu
256T	24.22	CHK	
FRAME	C	APPD	
		SCALE	
		REF	
		FMF	REGAL-VJXI
		PREV	
		REGAL BELMONT CORPORATION	
		REGAL BELMONT CORPORATION	
		TITLE	OUTLINE
		MAT'L.	254/256T QDP-ROLLED STEEL
		FINISH	
		ANG	±1/2°
		CHK	
		BY & DATE	
		RFP	
		DIST	
		CAD FILE	SS620685
		SIZE	B
		REV.	2

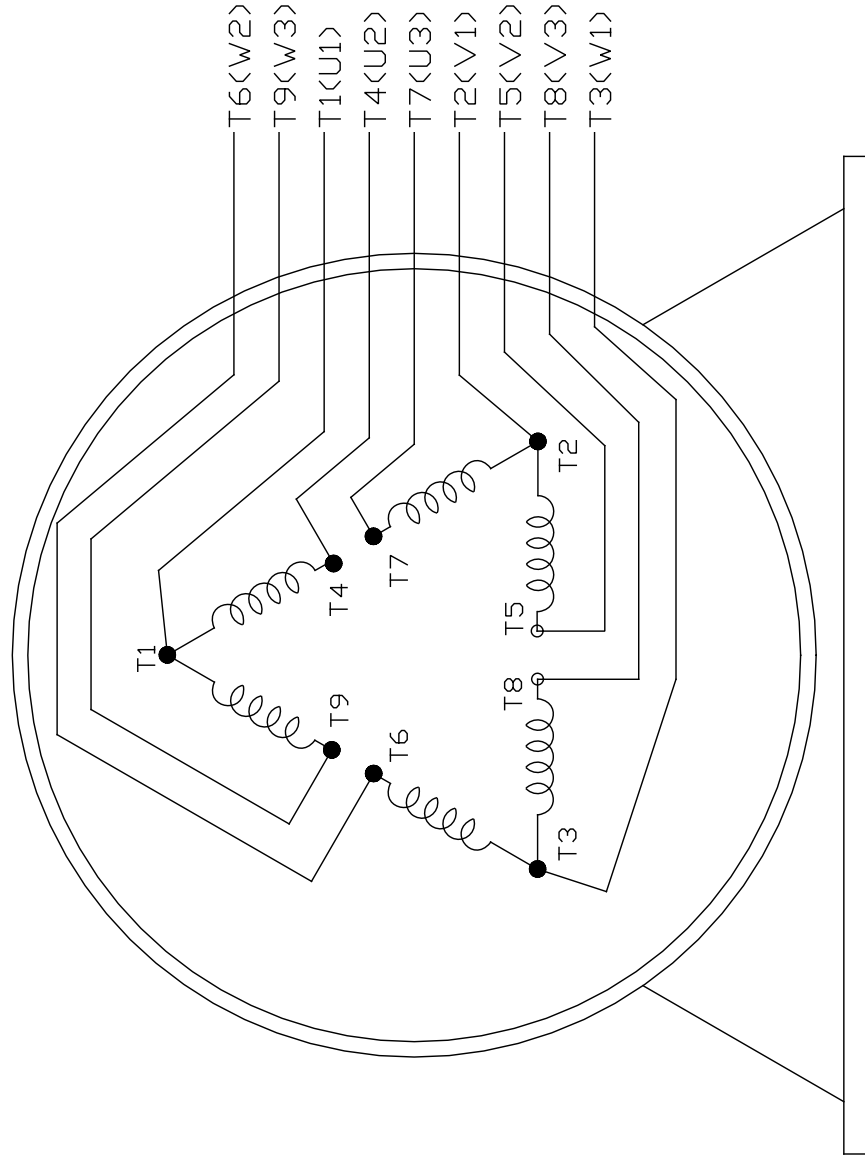
LOW VOLTAGE



HIGH VOLTAGE



EE7308K



VIEW OF TERMINAL END

REGAL		REGAL - BELOIT CORPORATION		DRAWN PGK 06-04-1997	
REGAL		REGAL - BELOIT CORPORATION		CHK	ML 06-05-1997
REGAL		REGAL - BELOIT CORPORATION		APPD	GK 06-15-1997
REGAL		REGAL - BELOIT CORPORATION		SCALE	
REGAL		REGAL - BELOIT CORPORATION		REF	
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REGAL		REGAL - BELOIT CORPORATION		CONNECTION DIAGRAM	
REGAL		REGAL - BELOIT CORPORATION		DELTA CON. - 3Ø - 9 LEADS	
REGAL		REGAL - BELOIT CORPORATION		MATERIAL	
REGAL		REGAL - BELOIT CORPORATION		FINISH	
REGAL		REGAL - BELOIT CORPORATION		CAD FILE EE7308K	
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REGAL		REGAL - BELOIT CORPORATION		REVISION	
REGAL		REGAL - BELOIT CORPORATION		THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT	
REGAL		REGAL - BELOIT CORPORATION		TOLERANCES UNLESS SPECIFIED	
REGAL		REGAL - BELOIT CORPORATION		EMH DEC.	INCHES
REGAL		REGAL - BELOIT CORPORATION		EMH X	±.1
REGAL		REGAL - BELOIT CORPORATION		MJS XX	±.02
REGAL		REGAL - BELOIT CORPORATION		.XXX	±.005
REGAL		REGAL - BELOIT CORPORATION		.XXXX	±.0005
REGAL		REGAL - BELOIT CORPORATION		CHK ANG	± 7'30"
REGAL		REGAL - BELOIT CORPORATION		RFP	
REGAL		REGAL - BELOIT CORPORATION		CORRECTED IEC MARKINGS ECO-0111208	
REGAL		REGAL - BELOIT CORPORATION		RE-DRAWN WITH REGAL LOGO ECO-0110493	
REGAL		REGAL - BELOIT CORPORATION		ADDED IEC DESIGNATIONS MU95020	
REGAL		REGAL - BELOIT CORPORATION		REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	
REGAL		REGAL - BELOIT CORPORATION		REDRAWN ON CADD	
REGAL		REGAL - BELOIT CORPORATION		W/GJ 01-23-2017	
REGAL		REGAL - BELOIT CORPORATION		W/GJ 09-30-2016	
REGAL		REGAL - BELOIT CORPORATION		T/JW 4/30/2010	
REGAL		REGAL - BELOIT CORPORATION		MRB 09-21-1998	
REGAL		REGAL - BELOIT CORPORATION		PGK 06-05-1997	

CERTIFICATION DATA SHEET

**Model#:** 254TTDDBD6026 AA      **WINDING#:** HE31604017 NONE 2  
**CONN. DIAGRAM:** A-EE7308K      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS620685

TYPICAL MOTOR PERFORMANCE DATA

<b>HP</b> 15&10	<b>KW</b> 11,2&7.5	<b>SYNC. RPM</b> 1800	<b>F.L. RPM</b> 1774&1478	<b>FRAME</b> 254T	<b>ENCLOSURE</b> DP	<b>KVA CODE</b> G	<b>DESIGN</b> B	
<b>PH</b> 3	<b>HZ</b> 60/50	<b>VOLTS</b> 230/460#190/ 380	<b>START TYPE</b> LINE OR INVERTER	<b>DUTY</b> CONTINUOU S	<b>INSL</b> F3	<b>S.F</b> 1.15/1.0	<b>AMB°C</b> 40	<b>ELEVATION</b> 3300
<b>FULL LOAD EFF:</b> 93&92.4		<b>3/4 LOAD EFF:</b> 93		<b>GTD. EFF</b>	<b>ELEC. TYPE</b>	<b>NO LOAD AMPS</b>		
<b>FULL LOAD PF:</b> 81&78		<b>1/2 LOAD PF:</b> 75.5		92.4	SQ. CAGE INV./RATED	18 / 9		
<b>F.L. TORQUE</b> 44.4 LB-FT		<b>LOCKED ROTOR AMPS</b> 230 / 115		<b>L.R. TORQUE</b> 91 LB-FT 205	<b>B.D. TORQUE</b> 119 LB-FT 268	<b>F.L. RISE°C</b> 40		
<b>SOUND PRESSURE</b> @ 3 FT.	<b>SOUND POWER</b>	<b>ROTOR WK^2</b>	<b>MAX. WK^2</b>	<b>SAFE STALL TIME</b>	<b>STARTS</b> /HOUR	<b>APPROX. MOTOR</b> <b>WGT</b>		
74 dBA	84 dBA	2.3 LB-FT^2	90 LB-FT^2	20 SEC.	2	300 LBS.		

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

<b>DE BRACKET</b> TYPE	<b>ODE BRACKET</b> TYPE	<b>MOUNT</b> TYPE	<b>ORIENTATION</b>	<b>SEVERE</b> DUTY	<b>HAZARDOUS</b> LOCATION	<b>DRIP</b> COVER	<b>SCREENS</b>	<b>PAINT</b>
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)
<b>BEARINGS</b>		<b>GREASE</b>	<b>SHAFT TYPE</b>	<b>SPECIAL DE</b>	<b>SPECIAL ODE</b>	<b>SHAFT</b> MATERIAL	<b>FRAME</b> MATERIAL	
<b>DE</b>	<b>OPE</b>					1045 HOT ROLLED (C-204)	ROLLED STEEL	
BALL 6309	BALL 6208	POLYREX EM	T	NONE	NONE			
<b>THERMOSTATS</b>		<b>THERMO-PROTECTORS</b>		<b>THERMISTORS</b>		<b>CONTROL</b>		<b>SPACE IN HEATERS</b>
NONE	NOT	<b>PROTECTORS</b>	<b>WDG RTDs</b>	<b>BRG RTDs</b>	NONE	FALSE	NONE VOLTS	

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: VARIABLE	10:1
INV. HP SPEED RANGE:	NONE
ENCODER:	NONE
NONE	NONE
NONE	NONE PPR
BRAKE:	NONE
NONE	PIN NONE
NONE	NONE
NONE FT-LB	NONE V
NONE HZ	NONE HZ

\* N O T E S \*

Data Sheet

Date: 6/20/2017

254TTDBD6026

Customer: \_\_\_\_\_



Attention: \_\_\_\_\_

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

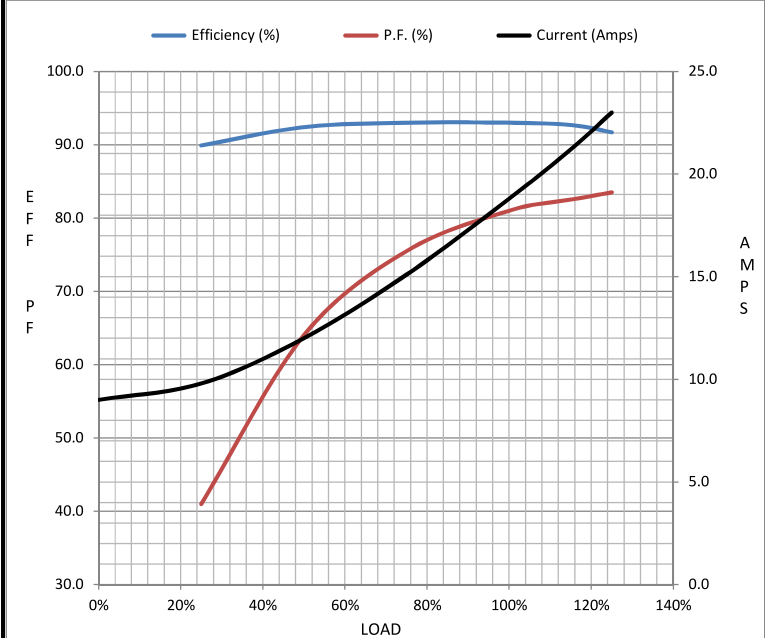
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	9.0	9.8	12.0	15.1	18.8	21.2	23.0	115
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.4	51.2	55.8	91.0
RPM	1800	1792	1788	1780	1774	1,768	1765	0
Efficiency (%)		89.9	92.4	93.0	93.0	92.7	91.7	
P.F. (%)	5.0	41.0	64.0	75.5	81.0	82.5	83.5	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1628	1774	1800
Current (Amps)	115	105	73.5	18.8	9.0
Torque (ft-lb)	91.0	78.0	119	44.4	0.00

Information Block

HP	15.0
Sync. RPM	1800
Frame	254
Enclosure	DP
Construction	TDC
Voltage	30/460#190/381V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	40 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk <sup>2</sup>	2.30 Lb-Ft <sup>2</sup>
Ref Wdg	HE31604017 NONE
Sound Pressure @ 1M	74 dBA
VFD Rating	VARIABLE 10:1
Outline Dwg	B-SS620685
Conn. Diag	A-EE7308K



Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.4120	0.2340	1.3440	1.4530	30.4670

Speed -Torque Curve

