

# PRODUCT INFORMATION PACKET



Model No: 119230.00

Catalog No: 119230.00

General Purpose Farm Duty Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 56CZ Frame, TEFC

Operational at 208-230/460 V @60HZ



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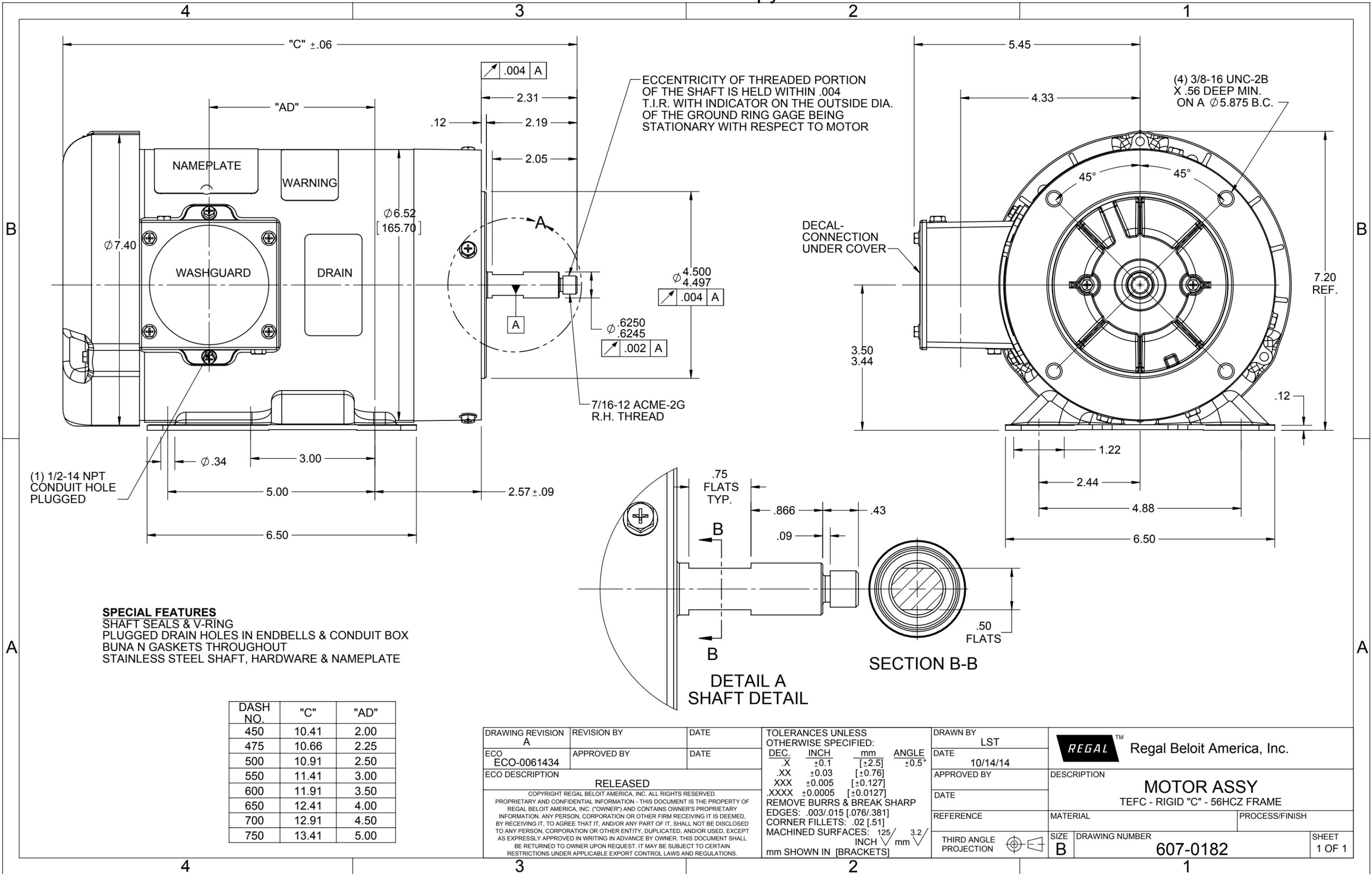


### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>1 Hp</b>
Output KW	<b>0.75 kW</b>	Voltage	<b>230/460 V</b>
Speed	<b>3450 rpm</b>	Service Factor	<b>1.15</b>
Frame	<b>56CZ</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>77 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>3.2/1.6 A</b>	Power Factor	<b>80</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>J</b>
Drive End Bearing Size	<b>6205</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>23.07 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>Single Special Extension</b>	Overall Length	<b>12.41 in</b>
Frame Length	<b>6.50 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>2.19 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Outline Drawing	<b>607-0182-650</b>	Connection Drawing	<b>005010.01</b>



**SPECIAL FEATURES**  
 SHAFT SEALS & V-RING  
 PLUGGED DRAIN HOLES IN ENDBELLS & CONDUIT BOX  
 BUNA N GASKETS THROUGHOUT  
 STAINLESS STEEL SHAFT, HARDWARE & NAMEPLATE

DASH NO.	"C"	"AD"
450	10.41	2.00
475	10.66	2.25
500	10.91	2.50
550	11.41	3.00
600	11.91	3.50
650	12.41	4.00
700	12.91	4.50
750	13.41	5.00

DRAWING REVISION A	REVISION BY	DATE
ECO ECO-0061434	APPROVED BY	DATE
ECO DESCRIPTION <b>RELEASED</b>		
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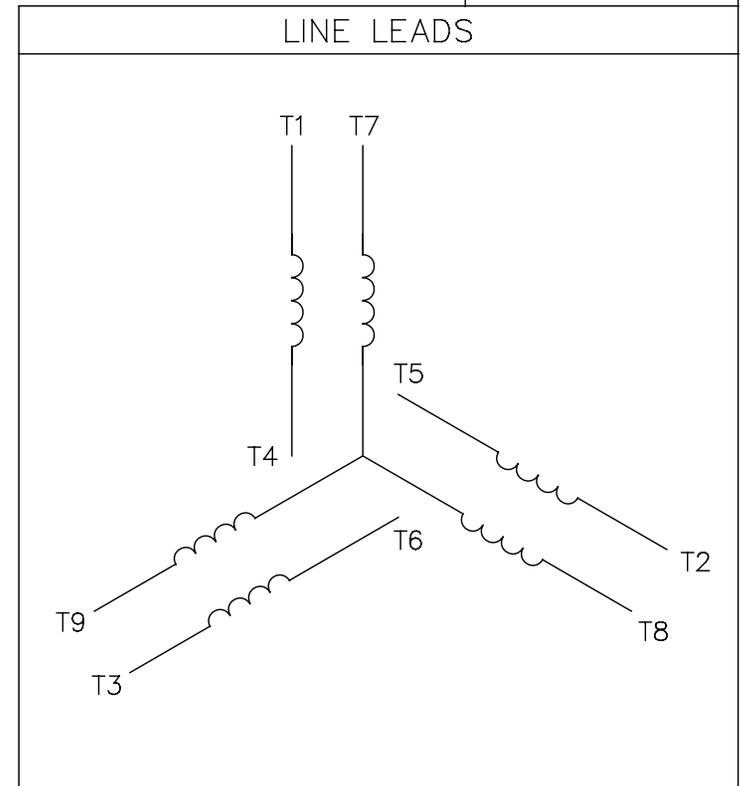
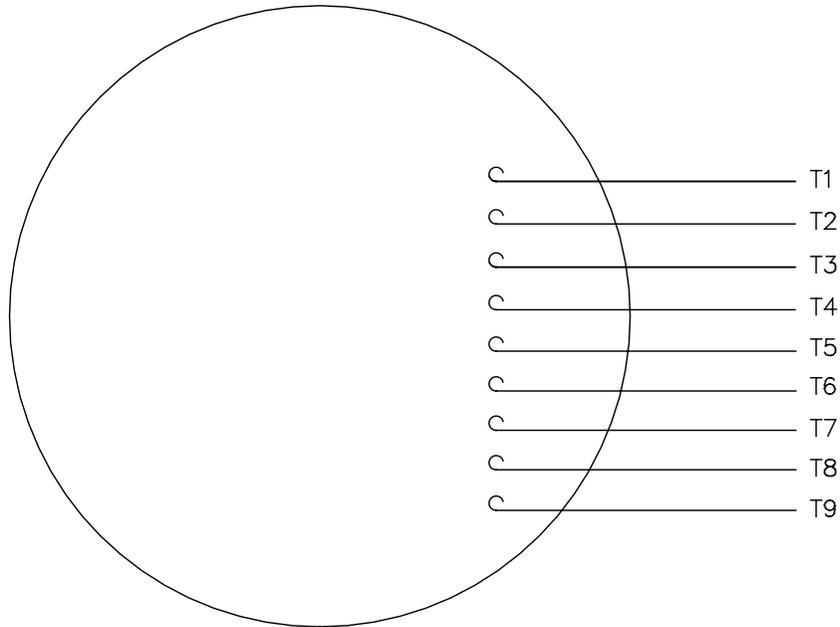
TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	±0.1	[±2.5]
.XX	±0.03	[±0.76]
.XXX	±0.005	[±0.127]
.XXXX	±0.0005	[±0.0127]
REMOVE BURRS & BREAK SHARP		
EDGES: .003/.015 [0.076/.381]		
CORNER FILLETS: .02 [0.51]		
MACHINED SURFACES: 125 INCH 3.2 mm		
mm SHOWN IN [BRACKETS]		

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DATE 10/14/14
APPROVED BY
DATE
REFERENCE
THIRD ANGLE PROJECTION

<b>REGAL</b> ™ Regal Beloit America, Inc.	
DESCRIPTION <b>MOTOR ASSY</b> TEFC - RIGID "C" - 56HCZ FRAME	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER 607-0182
SHEET 1 OF 1	

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

TOLERANCES  
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

NO. REVISION BY & DATE

CHK ANG ±1/2"

RFP 04/12/02

DIST BRF-NLV



**Regal Beloit America, Inc.**

TITLE  
EXTERNAL WIRING DIAGRAM  
3 PHASE W/O PROTECTOR

MAT'L. DECAL - 004014

FINISH

DRAWN RDW 04/12/02

CHK

APPD

SCALE 1=1

REF FIG.2-51

FMF

PREV

A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY .XXXX ±.0005
NO.	REVISION	BY & DATE	CHK ANG ±1/2"

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RFP	04/12/02	CAD FILE	00501001
DIST	BRF-NLV	SIZE	A

DRAWING NO.	005010-01	REV.	A
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P.O. BOX 8003  
 WAUSAU, WI 54401-8003  
 PH. 715-675-3311



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: 005010.01  
 OUTLINE: 607-0182-650  
 WINDING: T632161

CAT #: 119230.00

FR 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	3600	3460	56CZ	TEFC	TFR	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	3.1/1.55	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	77.1	3/4 LD EFF	75.2	1/2 LD EFF	69.5	GTD EFF	0.0	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	80.0	3/4 LD PF	74.3	1/2 LD PF	62.6				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
1.55 LB-FT	10.0	3.6 LB-FT 232%	5.0 LB-FT 323%	53

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
0 dBA	9 dBA	0.03 LB-FT²	0 LB-FT²	0 SEC.	0	0 LB.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	RAY - LIGHT (EPOX)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	SGL SPL EXT	SPECIAL	NONE	303 STAINLESS (C-501)	ROLLED STEEL
6205	6203						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0	0	0	0	0	0.080	ODE

* N O T E S *	INVERTER TORQUE: NONE	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE	
	NONE NONE PPR	

DATE: 1/18/2018	BRAKE: NONE	
	NONE NONE NONE	
	FT-LB: NA	HZ:
	VOLTAGE: NONE	
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 1/18/2018

119230.00



Data @ 460 V

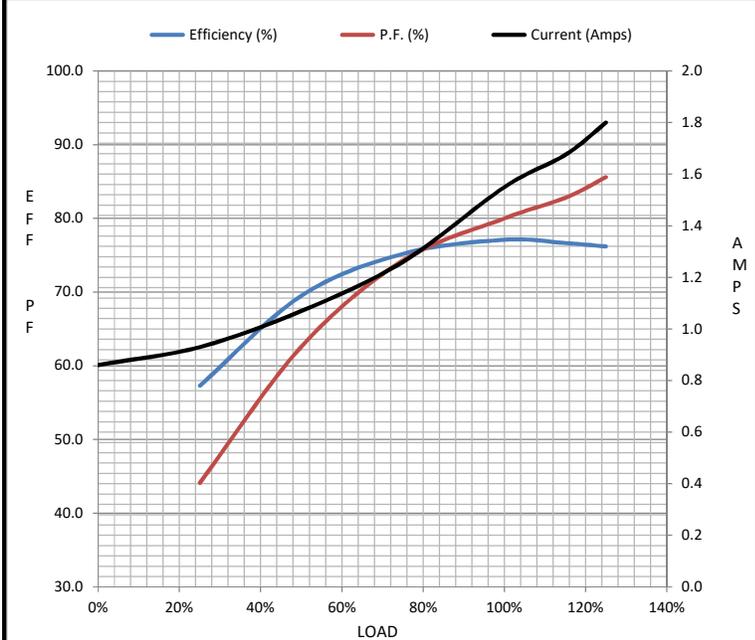
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.86	0.93	1.07	1.26	1.55	1.68	1.80	10.0
Torque (ft-lb)	0.00	0.37	0.74	1.13	1.55	1.74	1.93	3.6
RPM	3600	3563	3530	3495	3460	3,440	3411	0
Efficiency (%)		57.3	69.5	75.2	77.1	76.7	76.2	
P.F. (%)	23.1	44.1	62.6	74.3	80.0	82.8	85.6	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	200	2600	3460	3600
Current (Amps)	10.0	9.2	6.0	1.55	0.86
Torque (ft-lb)	3.6	3.5	5.0	1.55	0.00

Information Block				
HP	1.0			
Sync. RPM	3600			
Frame	140			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	53 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.03 Lb-Ft <sup>2</sup>			
Ref Wdg	T632161 FR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	607-0182-650			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

