

PRODUCT INFORMATION PACKET

Model No: 182TTFN16584

Catalog No: E380A

XRI®-SD Severe Duty Motor, 1.50 & 1.50 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM,
182T Frame, TEFC



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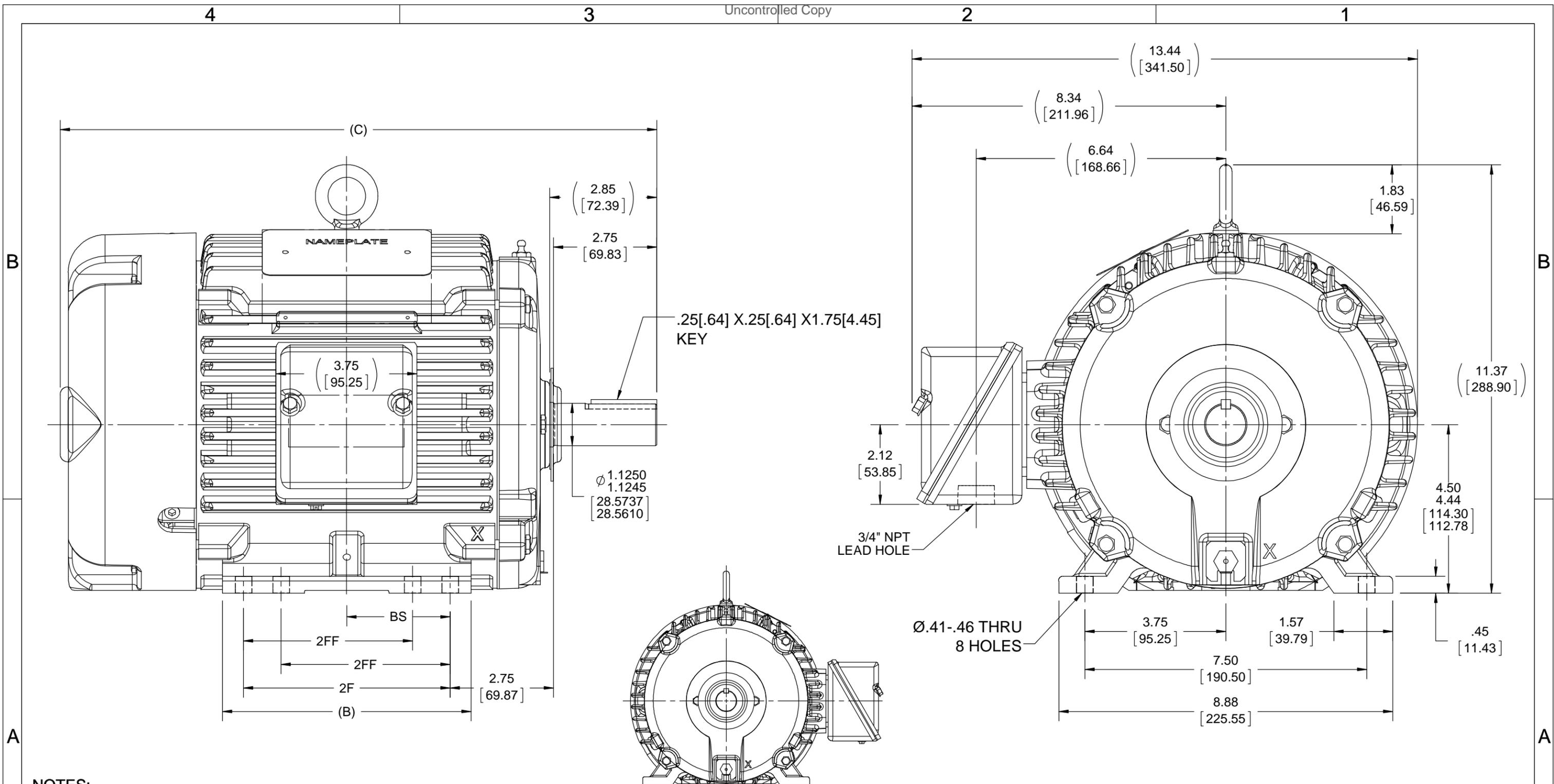
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Nameplate Specifications

Phase	3	Output HP	1.50 & 1.50 Hp
Output KW	1.1 & 1.1 kW	Voltage	460 & 380 V
Speed	1175 & 965 rpm	Service Factor	1.25 & 1.0
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	87.5 & 85.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	2.2 & 2.6 A	Power Factor	71.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	7.75 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	15.87 in
Frame Length	8.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.85 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	036395-800	Connection Drawing	A-EE7300



- NOTES:
1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 2. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.

800	15.87 [403.10]	6.61 [167.90]	5.50 [139.70]	4.50 [114.30]	2.75 [69.85]
DASH	C	B	2F	2FF	BS

DRAWING REVISION A	REVISION BY	DATE
ECO ECO-0148822	APPROVED BY	DATE
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.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] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS]

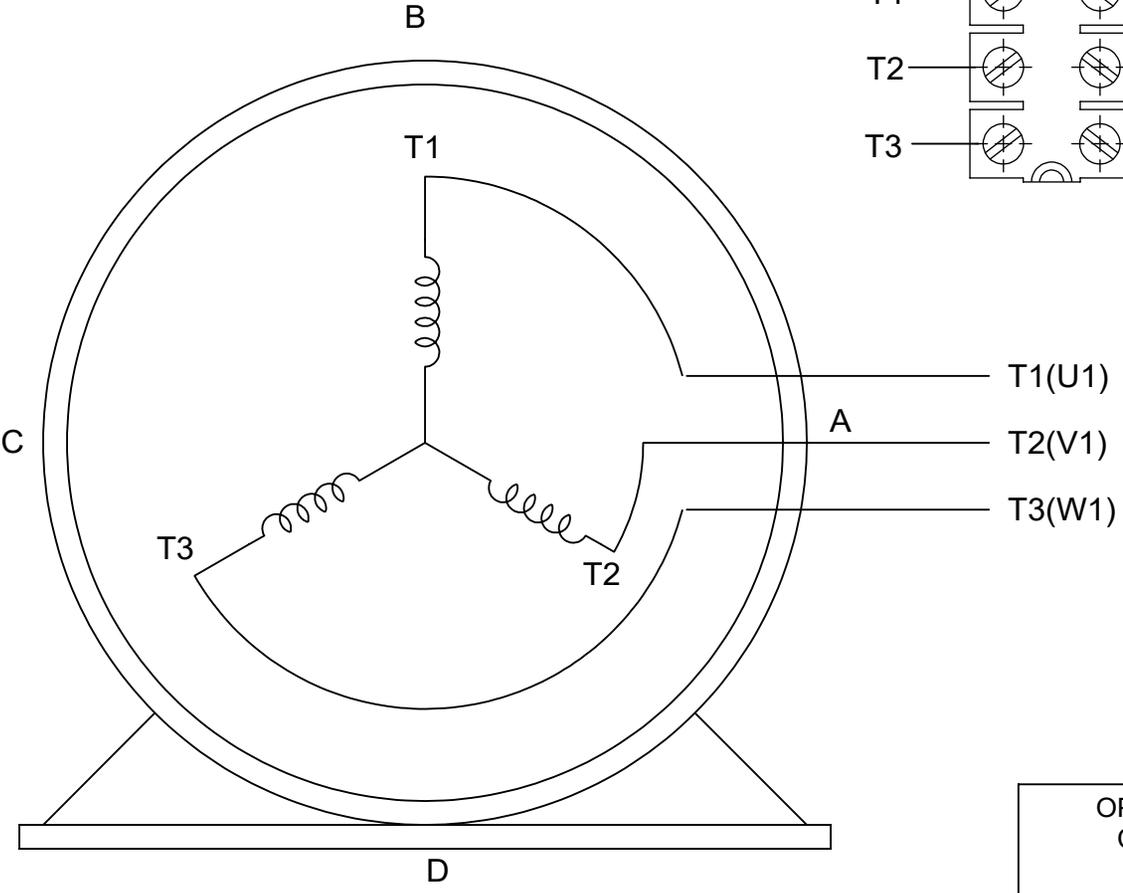
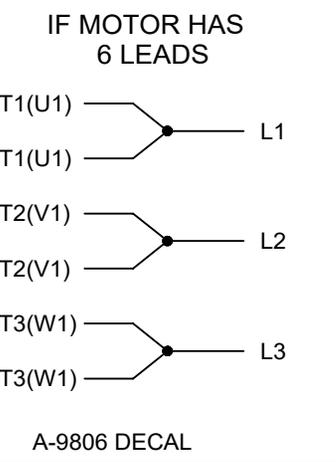
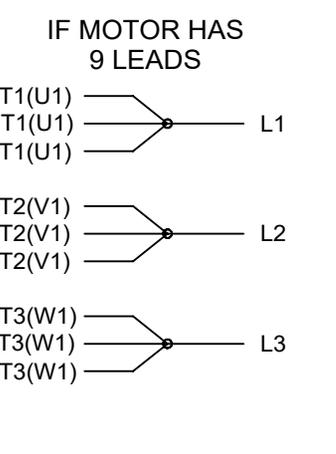
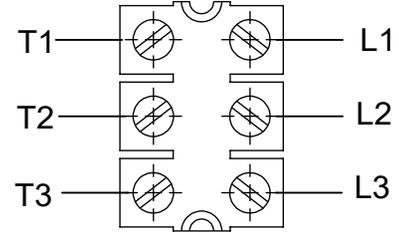
DRAWN BY T AHER
DATE 04/24/2018
APPROVED BY ST
DATE 7/16/2018
REFERENCE 035661
THIRD ANGLE PROJECTION

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION	OUTLINE 180 FR. - CAST C'BOX
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER 036395
SHEET 1 OF 1	

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TERMINAL BLOCK WHEN SPECIFIED

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022
REQUEST NUMBER DESCRIPTION DRAWING UPDATED		
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

		Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR			
MATERIAL		PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300		SHEET 1 OF 1



P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ **CUSTOMER P.O. #:** _____
ORDER #: _____ **REFERENCE MODEL #:** 182TTFN16584
CONN. DIAGRAM: A-EE7300 **CAT #:** E380A
OUTLINE: 035661-800 **CUSTOMER PART #:** _____
WINDING: K182644 FS 2 **MOUNTING:** F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	1200	1175	182T	TEFC	TFS	L	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	2.2&2.6	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	87.5	1/2 LD EFF	86.5	GTD EFF	86.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	71.5	3/4 LD PF	64.0	1/2 LD PF	52.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
6.8 LB-FT	17.0	13.4 LB-FT 197%	24.4 LB-FT 359%	40

@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
55 dBA	64 dBA	0.38 LB-FT ²	32 LB-FT ²	25 SEC.	2	90 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
BALL	BALL						
6206	6206						

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
1.32	0.714	3.004	3.372	44.699	0.080	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE HZ:					
	UL: V-INS, CONST UL REC					

PREPARED BY: FAREEDA DUDEKULA
DATE: 9/10/2018

Data Sheet

182TTFN16584

Date: 12/4/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

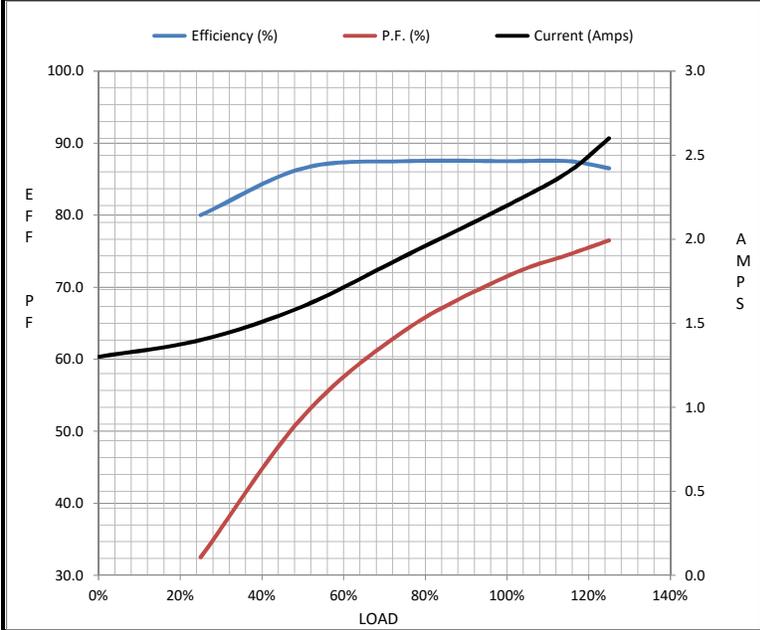
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.30	1.40	1.60	1.90	2.20	2.40	2.60	17.0
Torque (ft-lb)	0.00	1.70	3.4	5.2	6.8	7.8	8.5	13.4
RPM	1200	1195	1188	1182	1175	1,172	1168	0
Efficiency (%)		80.0	86.5	87.5	87.5	87.5	86.5	
P.F. (%)	6.0	32.5	52.0	64.0	71.5	74.5	76.5	45.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1050	1175	1200
Current (Amps)	17.0	15.0	8.2	2.20	1.30
Torque (ft-lb)	13.4	11.8	24.4	6.8	0.00

Information Block

HP	1.5			
Sync. RPM	1200			
Frame	182			
Enclosure	TEFC			
Construction	TFS			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.25			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.38 Lb-Ft ²			
Ref Wdg	K182644 FS			
Sound Pressure @ 1M	55 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	035661-800			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.3200	0.7140	3.0040	3.3720	44.6990



Speed - Torque Curve

