

PRODUCT INFORMATION PACKET

Model No: 182THTL7736

Catalog No: Y558

Speed Ratio Motors, TENV, 3 HP, 3 Ph, 60 Hz, 575 V, 1755 RPM, 182TC Frame



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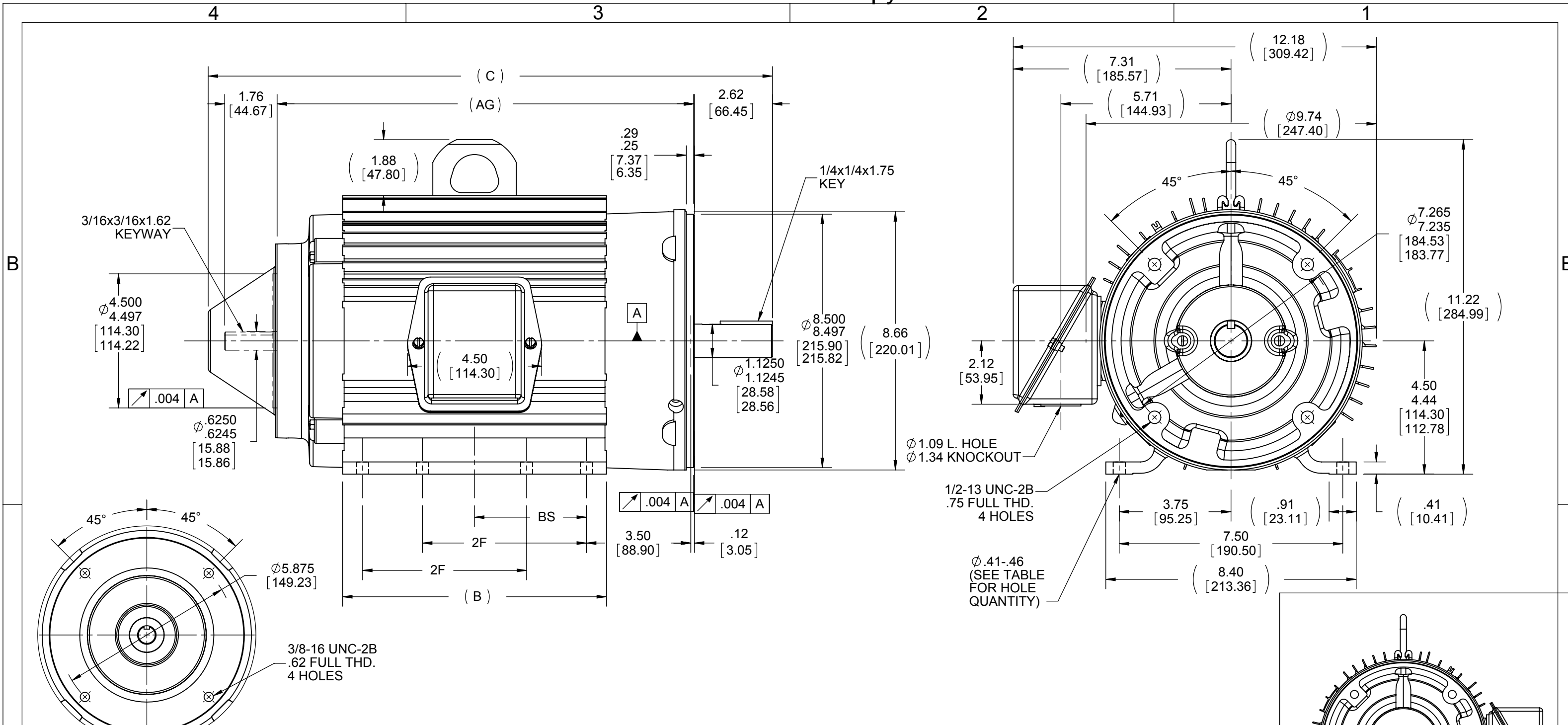
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	575 V
Current	3.4 A	Speed	1755 rpm
Service Factor	1	Phase	3
Efficiency	85.5 %	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	P
Frame	182TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	3.55 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	17.38 in
Frame Length	7.20 in	Shaft Diameter	1.125 in
Shaft Extension	2.62 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300T	Outline Drawing	B-SS68967-720

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

575	182TC	15.93	11.00	5.85	4.50	2.25	8	F1 OR F2
675	182TC	16.93	12.00	6.85	4.50	2.75	8	F1 OR F2
675	184TC	16.93	12.00	6.85	4.50	2.75	8	F1 OR F2
675A	184TC	16.93	12.00	6.85	5.50	2.75	4	F1 OR F2
720	182TC	17.38	12.45	7.30	4.50	2.98	8	F1 OR F2
720	182TC	17.38	12.45	7.30	4.50	2.98	4	F1 ONLY
775	184TC	17.93	13.00	7.85	5.50	3.25	8	F1 OR F2
875	182TC	18.93	14.00	8.85	4.50	3.75	8	F1 OR F2
875	184TC	18.93	14.00	8.85	5.50	3.75	8	F1 OR F2
925	184TC	19.43	14.50	9.35	5.50	4.00	8	F1 OR F2
DASH	FRAME	C	AG	B	2F	BS	FOOT HOLES	MTG.

DRAWING REVISION H	REVISION BY SAI	DATE 04/04/2014
ECO ECO-0048883	APPROVED BY SR	DATE 04/04/2014
ECO DESCRIPTION DASH 675 ADDED-184TC		
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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] CORNER FILLETS: .02 [0.51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS]			

DRAWN BY CAV
DATE 06-23-2000
APPROVED BY GK
DATE 06-23-2000
PROCESS/FINISH
THIRD ANGLE PROJECTION

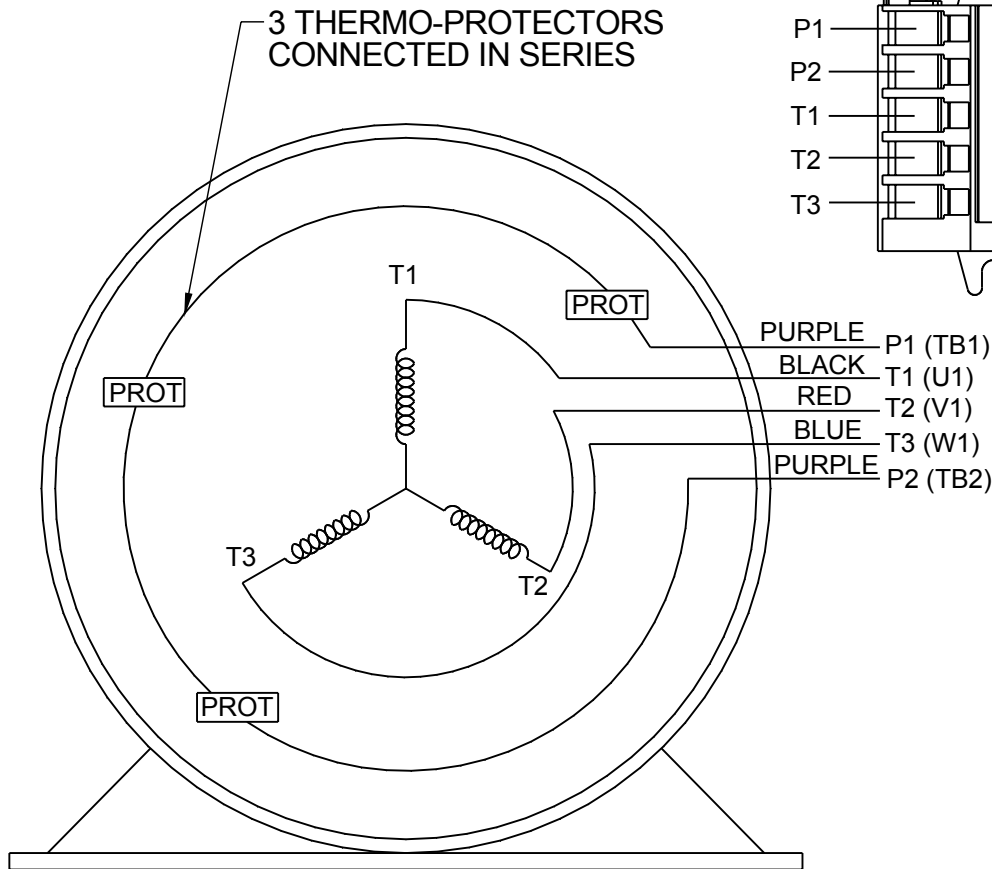
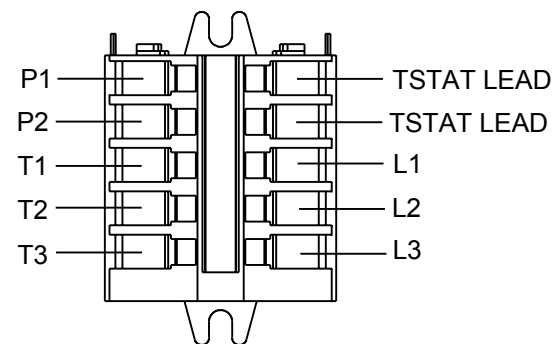
REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION	OUTLINE
MATERIAL	
SIZE B	DRAWING NUMBER SS68967
SHEET 1 OF 1	

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

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS**

**NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1**

TERMINAL BLOCK WHEN SPECIFIED

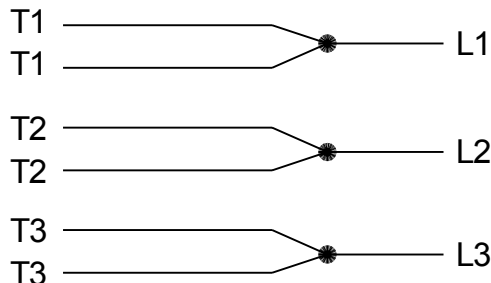


VIEW OF TERMINAL END

- PURPLE P1 (TB1)
- BLACK T1 (U1)
- RED T2 (V1)
- BLUE T3 (W1)
- PURPLE P2 (TB2)

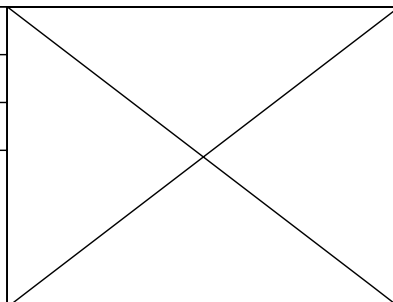
- T2BM
- T6AW
- T6AL
- T6Z
- T4EG
- T4BF
- T8A
- T6H
- T6A
- T4AX
- T4A
- T2A
- T2F

**IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S**



A-9806 DECAL

DRAWING REVISION AB	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T.VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC-60034-8		
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DRAWN BY LZ	Regal Beloit America, Inc.		
DATE 01-04-1994	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR		
APPROVED BY GK	MATERIAL	PROCESS/FINISH	
DATE 01-20-1994	DRAWING NUMBER EE7300T		SHEET 1 OF 1
REFERENCE	SIZE A		
THIRD ANGLE PROJECTION			

CERTIFICATION DATA SHEET

Model#: 182THTL7736 BS
 CONN. DIAGRAM: A-EE7300T
 OUTLINE: B-SS68967-720

WINDING#: K1824104 NONE 3
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1800	1755	182TC	TENV	P	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	3.35	INVERTER ONLY	CONTINUOUS	F3	1.0	40	3300

FULL LOAD EFF: 85.5	3/4 LOAD EFF: 84	1/2 LOAD EFF: 82.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80	3/4 LOAD PF: 73	1/2 LOAD PF: 61	82.5	SQ CAGE INV DUTY	1.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	39.2	33 LB-FT 367	48 LB-FT 533	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.42 LB-FT^2	0 LB-FT^2	0 SEC.	0	110 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
2.35554	1.73118	4.26646	4.3043	123.926

RM	ZREF	XR	TD	TD0
4323.22	94.6	1.4	0.0064	0.188

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLACK (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ALUMINUM
6207	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 1000:1
INV. HP SPEED RANGE: 2.0 X BASE SPEED
ENCODER: PROVISIONS ONLY
NONE NONE
NONE NONE PPR
BRAKE: PROVISIONS ONLY NONE

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NONE	P/N	NONE	
NONE	NONE		
NONE FT-LB		NONE V	NONE Hz

DATE: 06/27/2017 01:17:54 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



182THTL7736

Submittal

Data @ 575 V

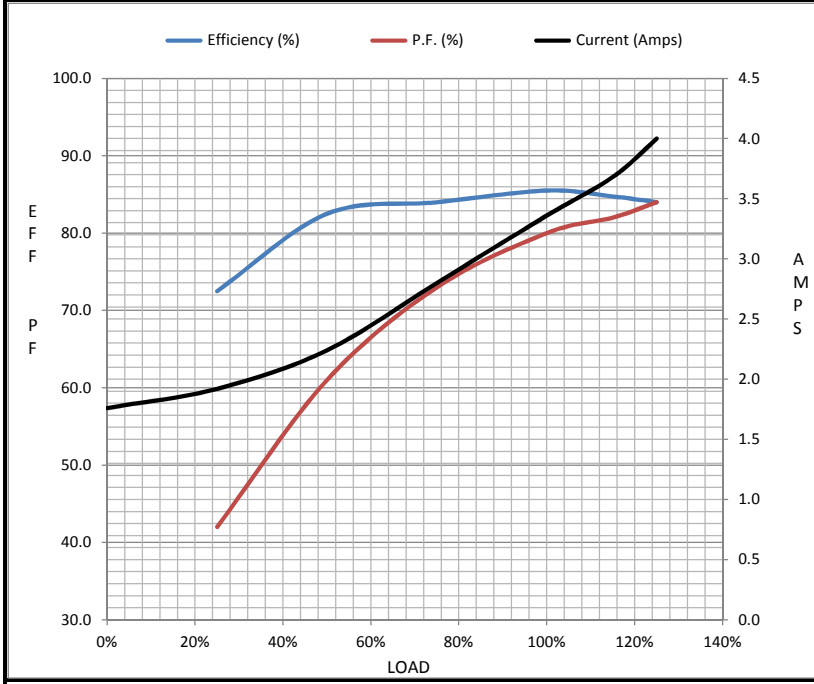
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.76	1.92	2.24	2.80	3.4	3.7	4.0	39.2
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.2	11.3	33.0
RPM	1800	1790	1780	1765	1755	1,751	1745	0
Efficiency (%)		72.5	82.5	84.0	85.5	84.8	84.0	
P.F. (%)	10.5	42.0	61.0	73.0	80.0	82.0	84.0	60.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1755	1800
Current (Amps)	39.2	36.8	24.8	3.4	1.76
Torque (ft-lb)	33.0	27.0	48.0	9.0	0.00

Information Block				
HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TENV			
Construction	TTL			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.42 Lb-Ft ²			
Ref Wdg	K1824104 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	B-SS68967-720			
Conn. Diag	A-EE7300T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.6810	2.7050	6.6660	6.7250	193.6340



Speed - Torque Curve

