

# PRODUCT INFORMATION PACKET



Model No: LM80089  
Catalog No: LM80089

Fire Pump Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 364TS Frame,  
TEFC



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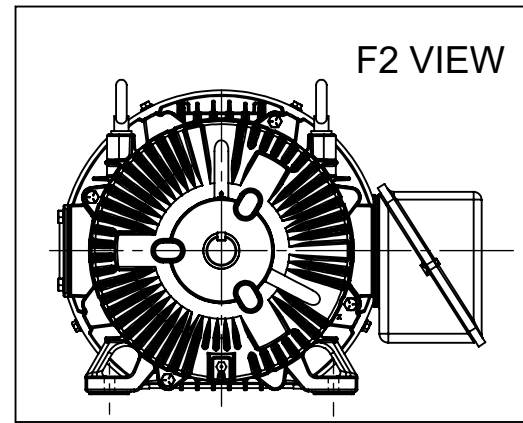
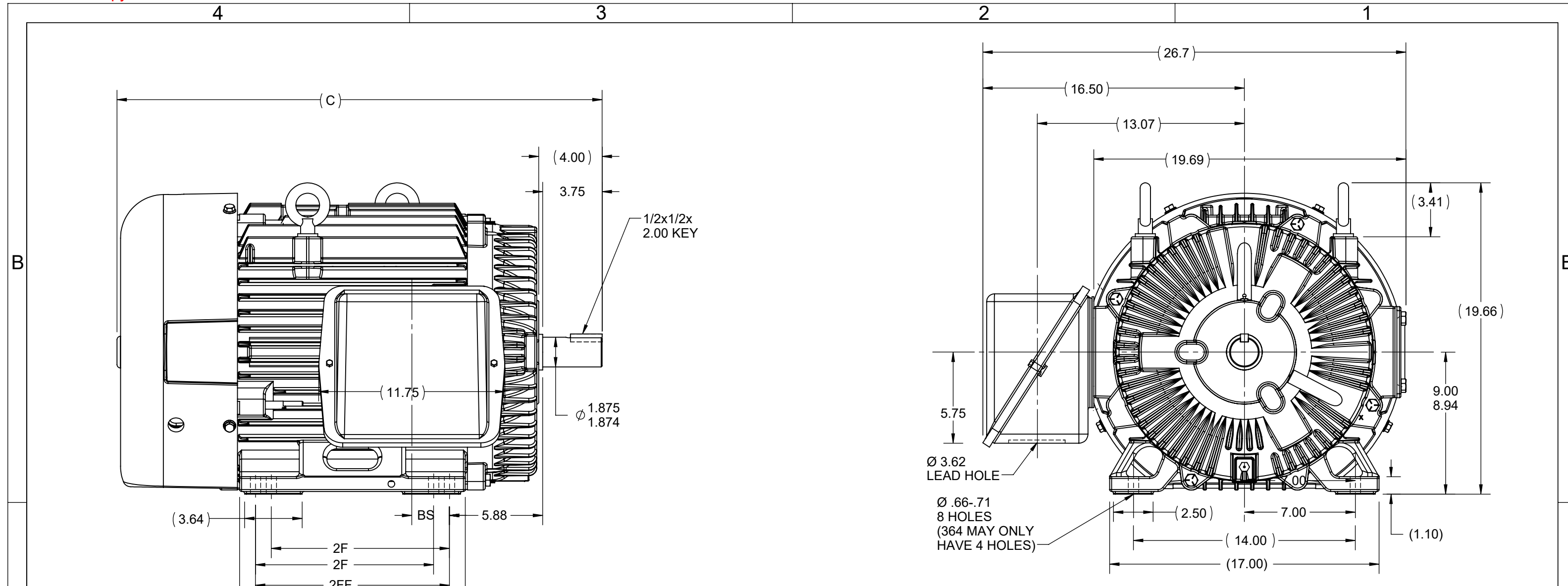


### Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 190/380 V
Speed	3555 & 2955 rpm	Service Factor	1.15 & 1.15
Frame	364TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	138/69 & 139/69.5 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

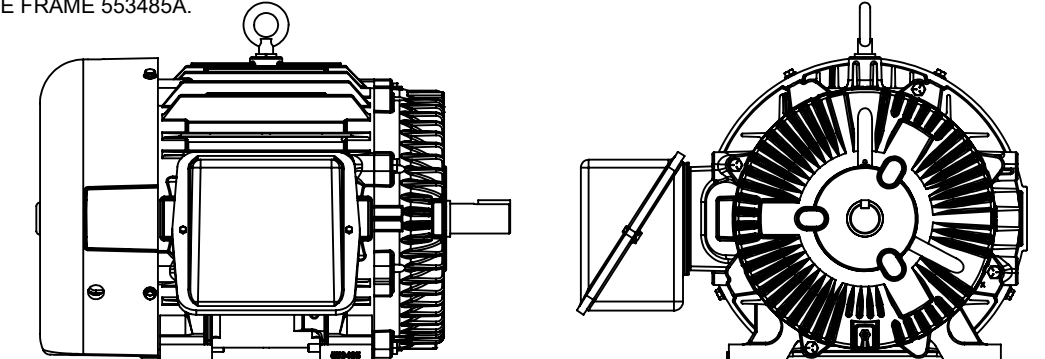
### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.099 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	29.38 in
Frame Length	13.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308AA-LN	Outline Drawing	B-SS504620LN-1350



FRAME 364 - 1350

- NOTE:  
 1. ALTERNATE FRAME DRAWING.  
 2. MODELS USING ALTERNATE FRAME 553485A.



NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.

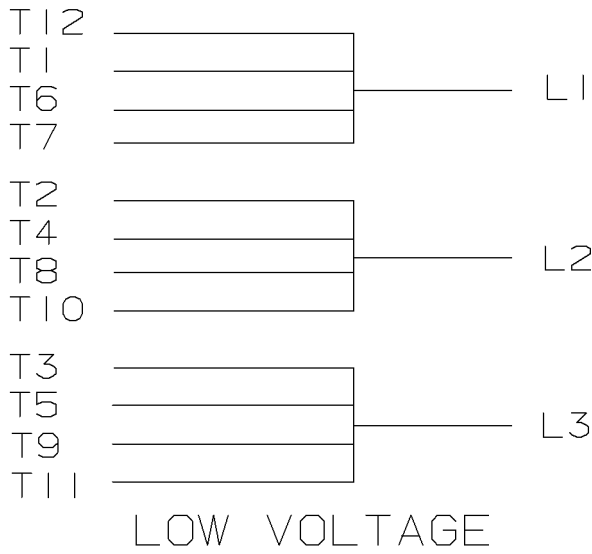
DASH	FRAME	B	C	2F	2FF	BS
1350	364TS	13.25	29.60	11.25	----	5.62
1450	364/365TS	14.25	30.60	11.25	12.25	2.38

DRAWING REVISION C	REVISION BY MJ	REV DATE/© DATE 05/05/2022
REQUEST NUMBER CR-0007552	APPROVED BY VJ	DATE 05/05/2022
REQUEST NUMBER DESCRIPTION OUTLINE DRAWING IS UPDATED WITH NEW FRAME.		
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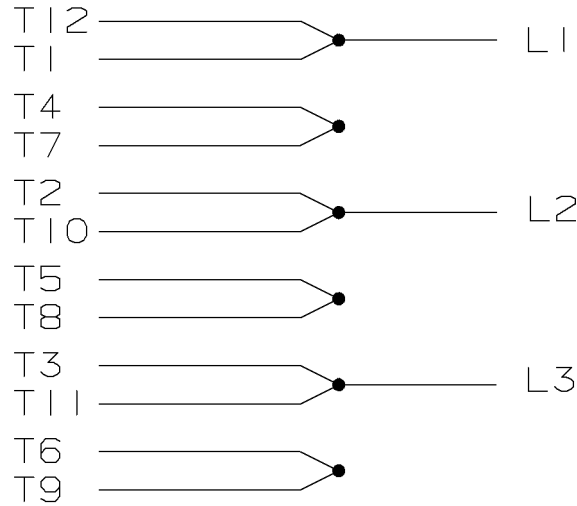
TOLERANCES (EXCEPT AS NOTED):  
 DEC. INCH mm ANGLE  
 .X ±0.1 [±3] ±0.5°  
 .XX ±0.03 [±0.8]  
 .XXX ±0.005 [±0.13]  
 .XXXX ±0.0005 [±0.013]  
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°  
 CORNER FILLETS: R.02 [.5]  
 MACHINED SURFACES: 125/ mm 3.2/ INCH mm  
 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY KL 02-16-2005	DATE
APPROVED BY JES 02-16-2005	DATE
REFERENCE	
THIRD ANGLE PROJECTION	

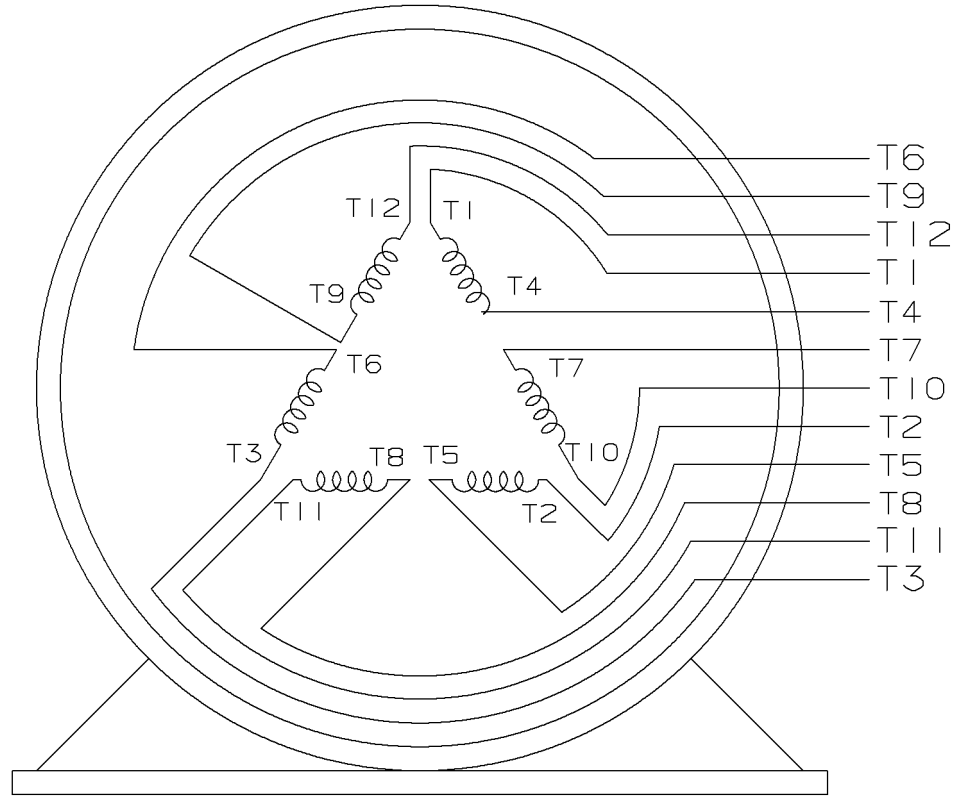
		Regal Beloit America, Inc.	
DESCRIPTION		OUTLINE	
		360TS FR.- TEFC	
MATERIAL	PROCESS/FINISH	SIZE	DRAWING NUMBER
		B	SS504620LN
			SHEET 1 OF 1



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

					✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"				
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR		MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY TRB 07-16-1999		
1	06-18-1999	NEW DRAWING	TRB	FINISH		CHKD BY ML 06-18-1999			
				MATERIAL		APPD BY GK 06-18-1999			
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308AA-LN		

PURCHASED

CADD FILE NO.

EE7308AALN

ERROR: undefined  
OFFENDING COMMAND: Pscrip  
  
STACK:

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CERTIFICATION DATA SHEET

2100 WASHINGTON ST.  
GRAFTON, WI  
PH. 262-277-8810

CONN. DIAGRAM: A-EE7308AA-LN

OUTLINE: B-SS504620LN-1350

CATALOG #: LM80089

WINDING #: T364282 2

MOUNTING: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60&50	45.0&37.0	3600	3555&2955	364TS	TEFC	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	138/69&139/69.5	WYE START DELTA RUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	93&92.4	3/4 LOAD EFF:	93	1/2 LOAD EFF:	91.7	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	88&88	3/4 LOAD PF:	86	1/2 LOAD PF:	81	91.7		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.6 LB-FT	820 / 410	140 LB-FT 158 %	210 LB-FT 236 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	6.9 LB-FT^2	40 LB-FT^2	20 SEC.	2	725 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6312						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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**INVERTER TORQUE:** NONE  
**INV. HP SPEED RANGE:** NONE

**ENCODER:** NONE  
NONE NONE  
NONE NONE PPR

**BRAKE:** NONE NONE  
NONE P/N NONE  
NONE NONE  
NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/22/2018

LM80089



Data @ **460 V**

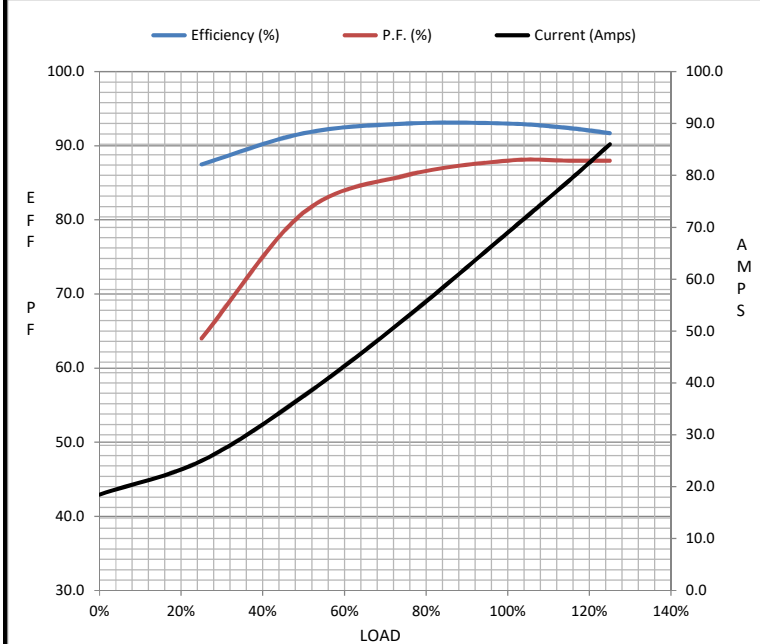
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	18.5	25.0	37.5	52.5	69.0	79.0	86.0	410
Torque (ft-lb)	0.00	22.0	44.0	66.0	88.6	102	111	140
RPM	3600	3590	3580	3570	3555	3,550	3545	0
Efficiency (%)		87.5	91.7	93.0	93.0	92.4	91.7	
P.F. (%)	10.0	64.0	81.0	86.0	88.0	88.0	88.0	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3375	3555	3600
Current (Amps)	410	375	235	69.0	18.5
Torque (ft-lb)	140	120	210	88.6	0.00

Information Block				
HP	60.0			
Sync. RPM	3600			
Frame	364			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	6.9 Lb-Ft <sup>2</sup>			
Ref Wdg	T364282 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS504620LN-1350			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0710	0.0470	0.4400	0.4540	14.3790



Speed - Torque Curve

