

PRODUCT INFORMATION PACKET



Model No: LM80185
Catalog No: LM80185

Fire Pump Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 364TS Frame,
TEFC



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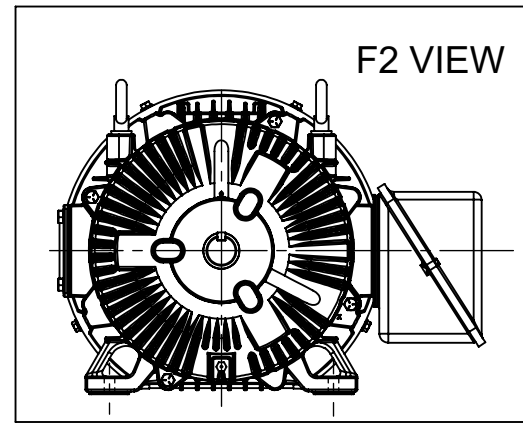
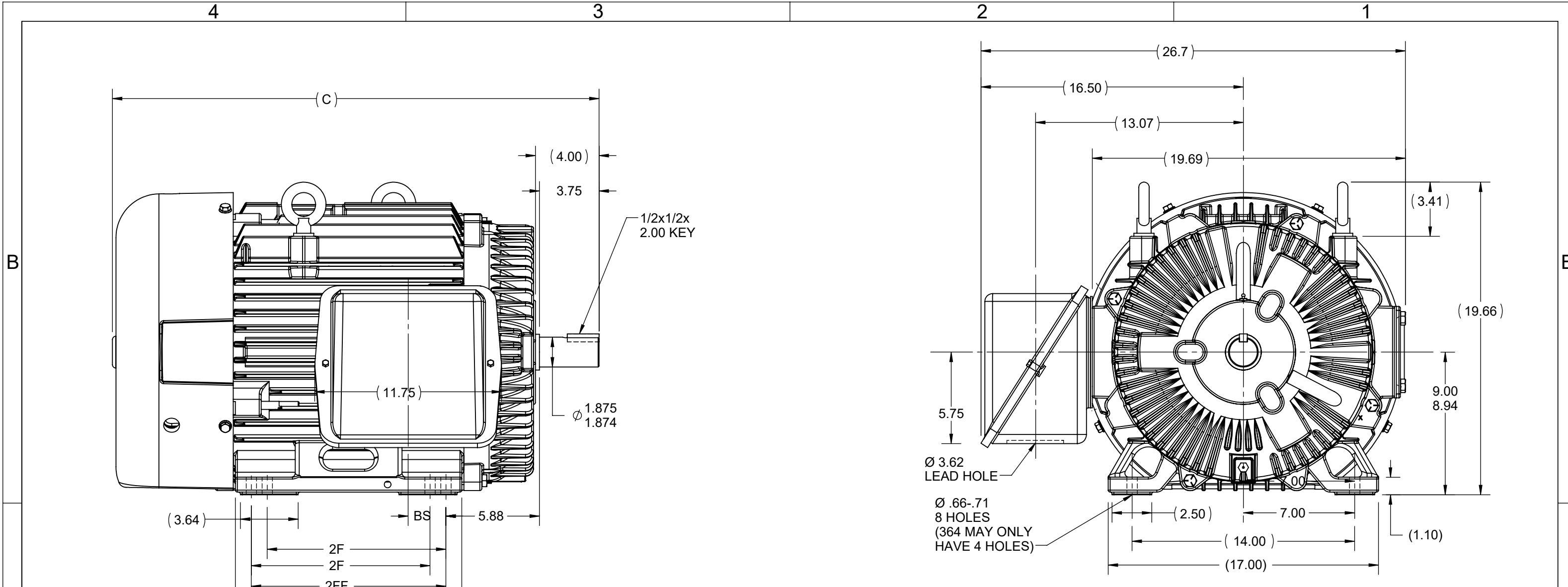


Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	230/460 & 190/380 V
Speed	1775 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	364TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93.6 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	142/71 & 144/72 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

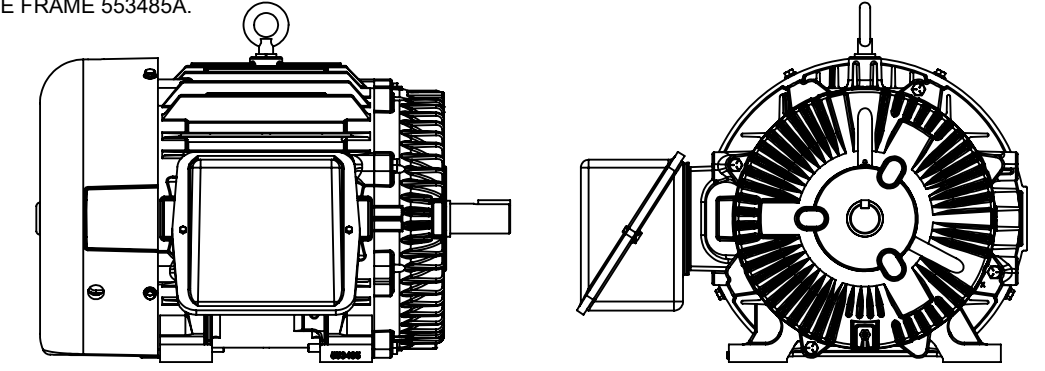
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.102 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	13.52 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS504620LN-1350	Connection Drawing	A-EE7308AA-LN



FRAME 364 - 1350

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



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

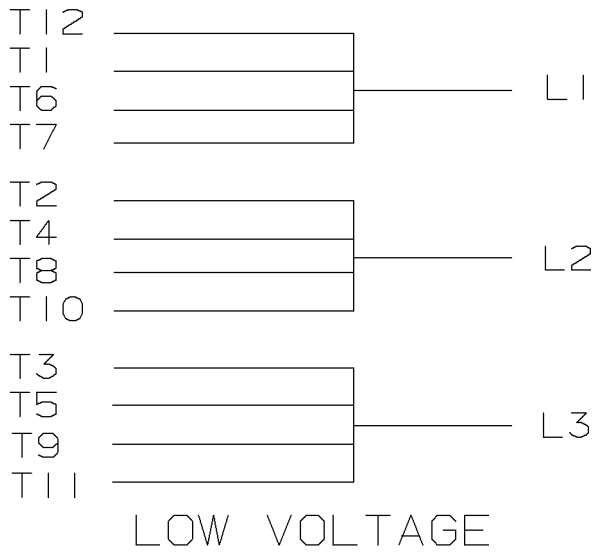
DASH	FRAME	B	C	2F	2FF	BS
1350	364TS	13.25	29.60	11.25	----	5.62
1450	364/365TS	14.25	30.60	11.25	12.25	2.38

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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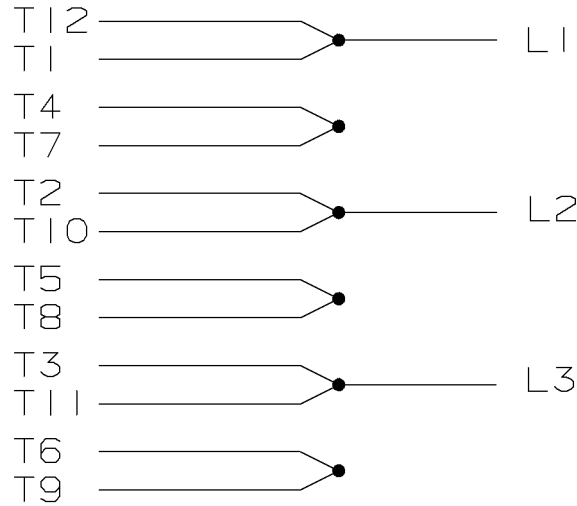
TOLERANCES (EXCEPT AS NOTED):
 DEC. INCH mm ANGLE
 .X ±0.1 [±3] ±0.5°
 .XX ±0.03 [±0.8]
 .XXX ±0.005 [±0.13]
 .XXXX ±0.0005 [±0.013]
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
 CORNER FILLETS: R.02 [.5]
 MACHINED SURFACES: 125/ mm 3.2/ INCH mm
 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

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

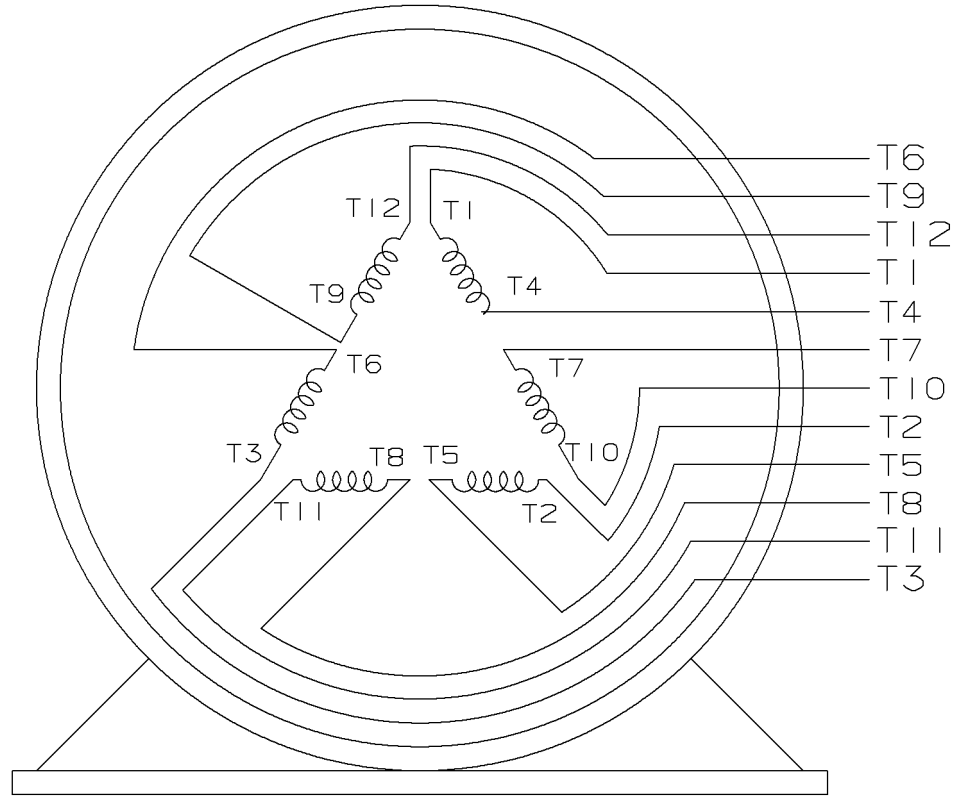
		Regal Beloit America, Inc.	
DESCRIPTION		OUTLINE	
MATERIAL		360TS FR.- TEFC	
SIZE	DRAWING NUMBER	PROCESS/FINISH	SHEET
B	SS504620LN		1 OF 1



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:



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308AA-LN
OUTLINE: B-SS504620LN-1350
WINDING: T3644164

CAT #: LM80185

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	1800	1775	364TS	TEFC	TFS	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	142/71&144/72	VVE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	93.6	3/4 LD EFF	93.6	1/2 LD EFF	93.0	GTD EFF	ELECT. TYPE
F.L. PF	84.0	3/4 LD PF	82.0	1/2 LD PF	74.0	92.4	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
177 LB-FT	425	290 LB-FT 164%	410 LB-FT 232%	75

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA		14.5 LB-FT²	420 LB-FT²	25 SEC.	2	825 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	NO	NONE	NO	NONE	WATTSAVER

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

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
0.076	0.052	0.421	0.52	11.045	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE					
	UL: NONE-INS UL REC					

DATE: 9/3/2018

BRAKE: NONE
NONE
NONE
FT-LB: NA
VOLTAGE: NONE
HZ:

Data Sheet

Date: 9/3/2018

LM80185



Data @ **460 V**

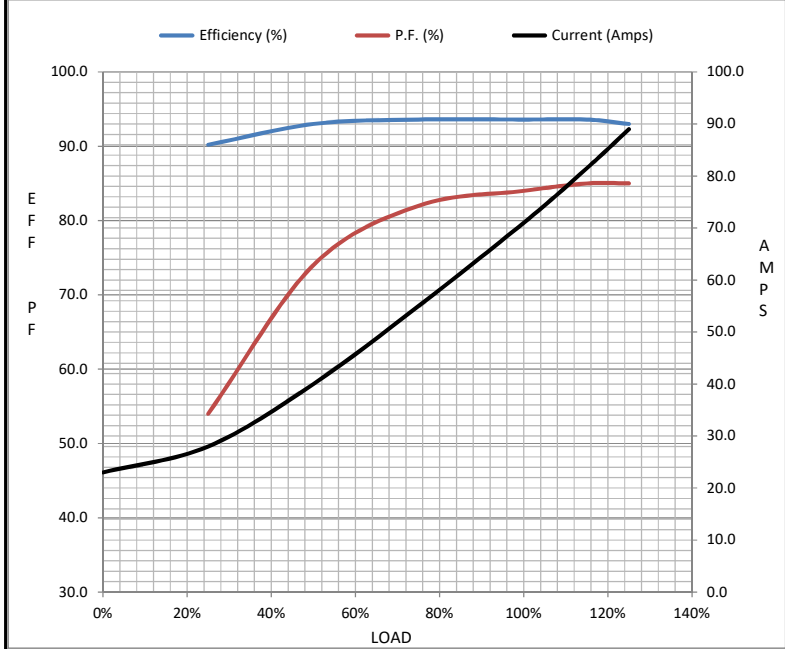
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	23.0	28.0	40.0	55.0	71.0	81.5	89.0	425
Torque (ft-lb)	0.00	44.0	88.0	133	177	205	223	290
RPM	1800	1795	1790	1782	1775	1,772	1768	0
Efficiency (%)		90.2	93.0	93.6	93.6	93.6	93.0	
P.F. (%)	5.5	54.0	74.0	82.0	84.0	85.0	85.0	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1775	1800
Current (Amps)	425	400	225	71.0	23.0
Torque (ft-lb)	290	275	410	177	0.00

Information Block				
HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	14.5 Lb-Ft ²			
Ref Wdg	T3644164 NONE			
Sound Pressure @ 1M	75 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
0.0760	0.0520	0.4210	0.5200	11.0450



Speed - Torque Curve

