

PRODUCT INFORMATION PACKET



Model No: 824538.00

Catalog No: 824538.00

60HP..1800RPM.364T.TEAO.230/460V.3PH.60HZ.AIR OVER.40C.1.15SF.RIGID BASE.....COOLING TOWER

Severe Duty Motors



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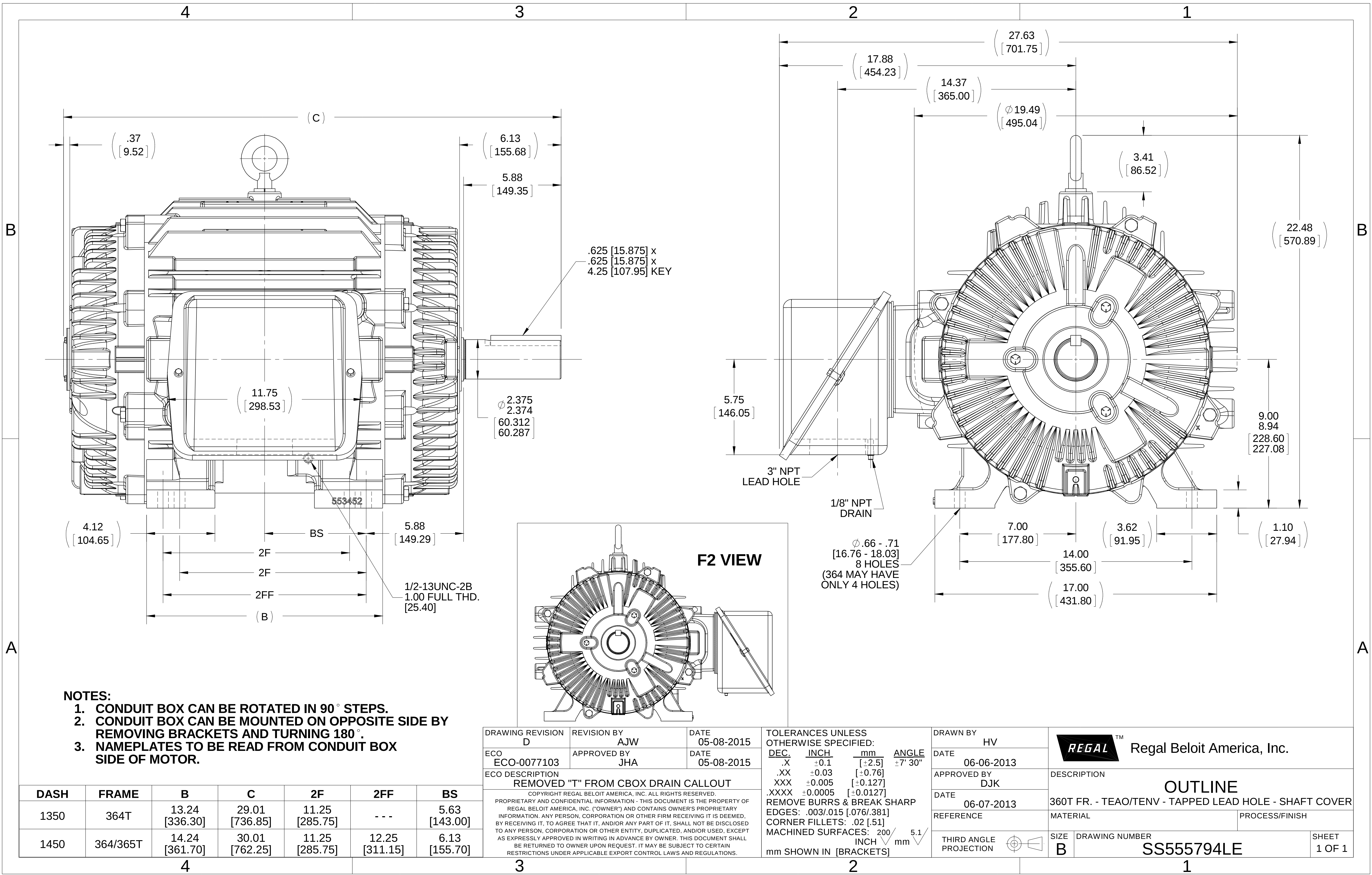


Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	144.0/72.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	364TV	Enclosure	Totally Enclosed Air Over
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

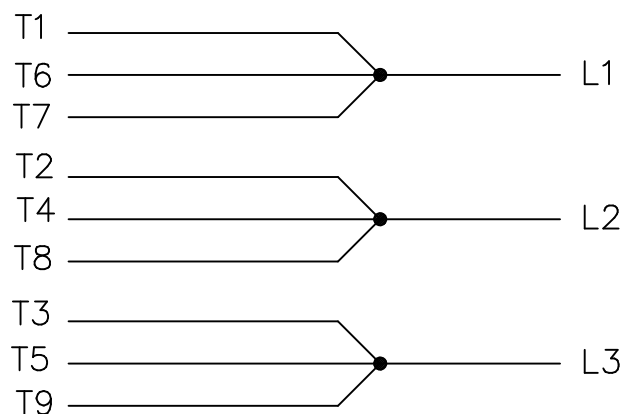
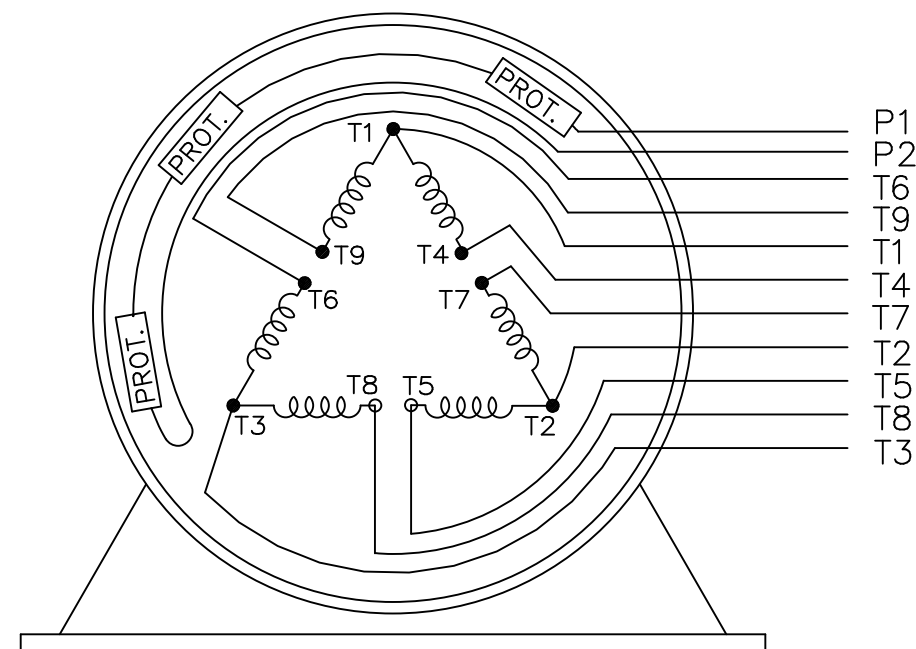
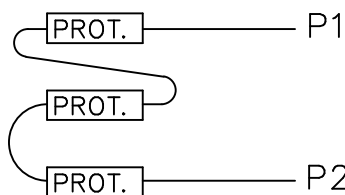
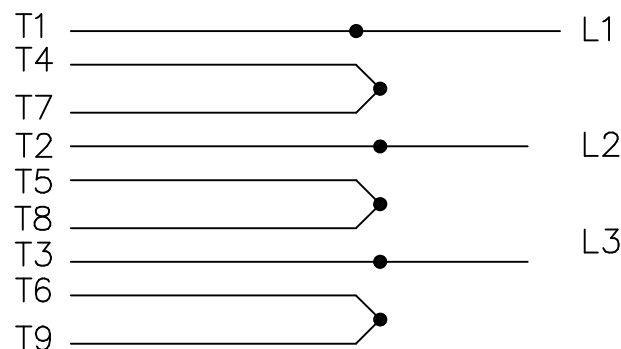
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.1 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Up Or Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	29.01 in
Frame Length	13.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308AD-LE	Outline Drawing	B-SS555794LE-1350



DRAWING REVISION D	REVISION BY AJW	DATE 05-08-2015	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 [.51] MACHINED SURFACES: 200 INCH mm 5.1 mm SHOWN IN [BRACKETS]	DRAWN BY HV	REGAL™ Regal Beloit America, Inc.		
ECO ECO-0077103	APPROVED BY JHA	DATE 05-08-2015		DATE 06-06-2013	DESCRIPTION OUTLINE 360T FR. - TEAO/TENV - TAPPED LEAD HOLE - SHAFT COVER		
ECO DESCRIPTION REMOVED "T" FROM CBOX DRAIN CALLOUT				APPROVED BY DJK			
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				REFERENCE			
			THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS555794LE	SHEET 1 OF 1	

DASH	FRAME	B	C	2F	2FF	BS
1350	364T	13.24 [336.30]	29.01 [736.85]	11.25 [285.75]	---	5.63 [143.00]
1450	364/365T	14.24 [361.70]	30.01 [762.25]	11.25 [285.75]	12.25 [311.15]	6.13 [155.70]

LOW VOLTAGEHIGH VOLTAGEVIEW OF TERMINAL END

WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN NJS 05-15-2002					
				DEC.	INCHES		CHK	ML	05-20-2002			
				.X	±.1		APPD	TB	05-20-2002			
				.XX	±.02		SCALE					
2	HIGH VOLT. SCHEMATIC WAS L1, L3, & L3	CN 32724	DRS 06-12-2004	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – WITH PROTECTORS			REF		
1	NEW DRAWING	CN 35132	NJS 05-20-2002	TB	.XXXX	±.0005	MAT'L.			FMF		
NO.	REVISION		BY & DATE	CHK	ANG	± 7'30"	FINISH			PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT				RFP		CAD FILE ee7308ad_le		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST WA-LB				A	EE7308AD-LE			



CERTIFICATION DATA SHEET

**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CATALOG #: 824538.00

CONN. DIAGRAM: A-EE7308AD-LE

OUTLINE: B-SS555794LE-1350

MOUNTING: F1/F2 CAPABLE

WINDING #: T3644133 R6 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60	45.0	1800	1775	364TV	TEAO	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	144/72	LINE OR INVERTER	CONTINUOUS	F1	1.15	40

FULL LOAD EFF:	93.6	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	92.4	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	83	3/4 LOAD PF:	80	1/2 LOAD PF:	72	92.4	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
177 LB-FT	870 / 435	375 LB-FT 212 %	475 LB-FT 268 %	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	14.5 LB-FT^2	420 LB-FT^2	25 SEC.	2	800 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL OR UP OR DOWN	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6312						

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

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INVERTER TORQUE: VARIABLE 10:1

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

824538.00



Data @ 460 V

Motor Load Data

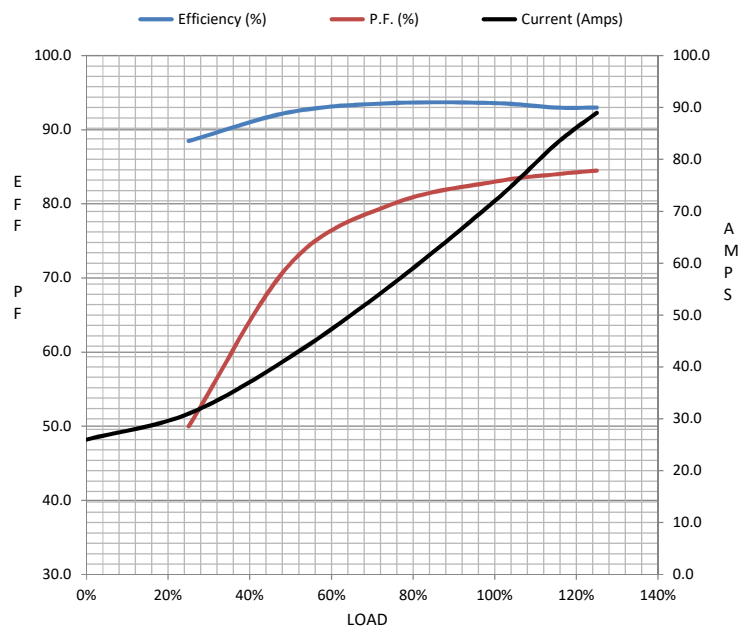
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	26.0	31.0	42.0	56.0	72.0	83.0	89.0	435	
Torque (ft-lb)	0.00	44.0	88.0	133	177	205	222	375	
RPM	1800	1795	1790	1785	1775	1.772	1770	0	
Efficiency (%)		88.5	92.4	93.6	93.6	93.0	93.0		
P.F. (%)	6.0	50.0	72.0	80.0	83.0	84.0	84.5	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1715	1775	1800
Current (Amps)	435	350	250	72.0	26.0
Torque (ft-lb)	375	350	475	177	0.00

Information Block

HP	60.0			
Sync. RPM	1800			
Frame	364			
Enclosure	TEAO			
Construction	TTS			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	14.5 Lb-Ft²			
Ref Wdg	T3644133 R6			
Sound Pressure @ 1M	999 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS555794LE-1350			
Conn. Diag	A-EE7308AD-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0700	0.0470	0.3800	0.4820	9.6260



Speed - Torque Curve

