

PRODUCT INFORMATION PACKET



Model No: 824562.00

Catalog No: 824562.00

Severe Duty Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM, 364T Frame, TEAO



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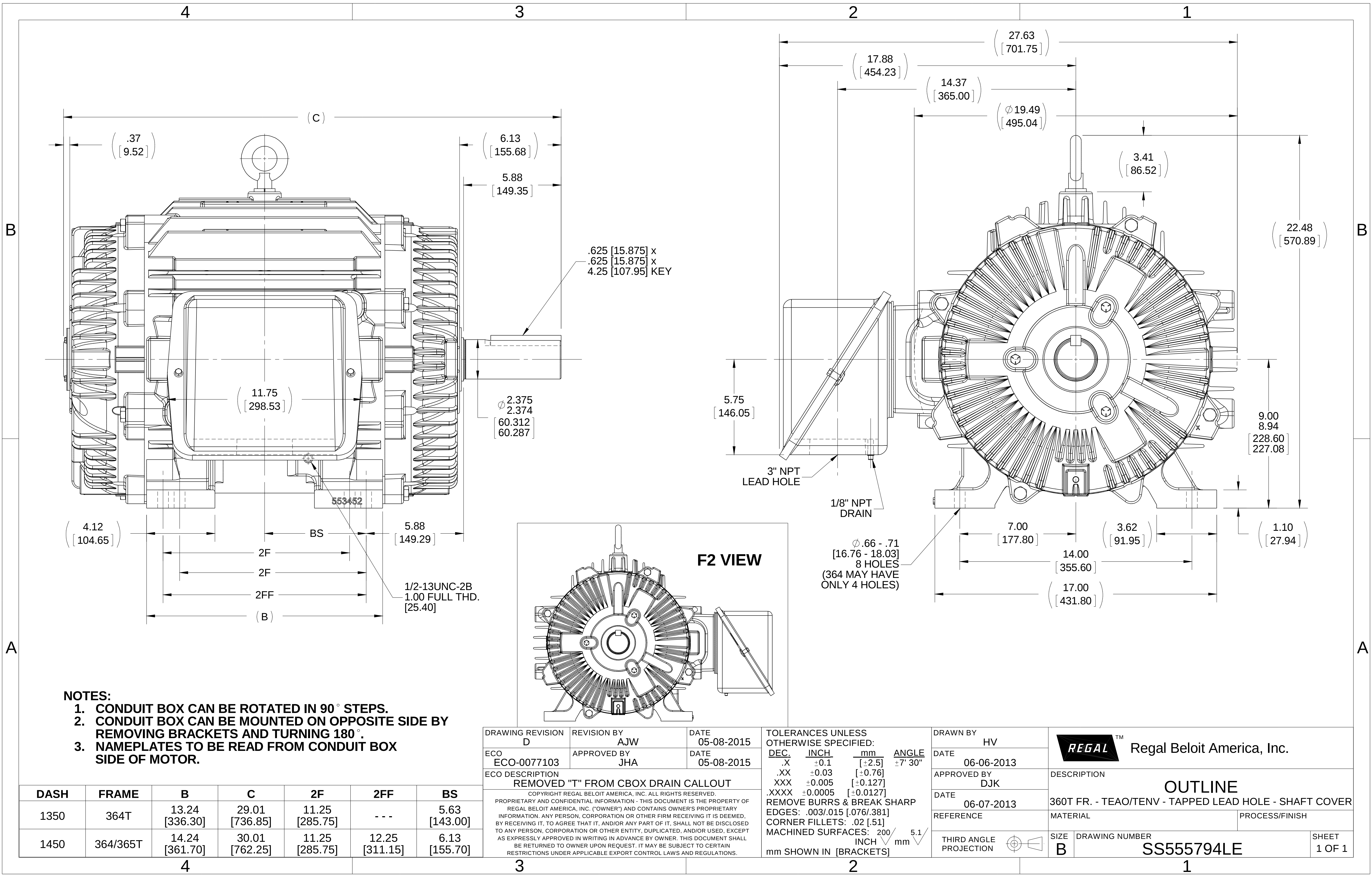


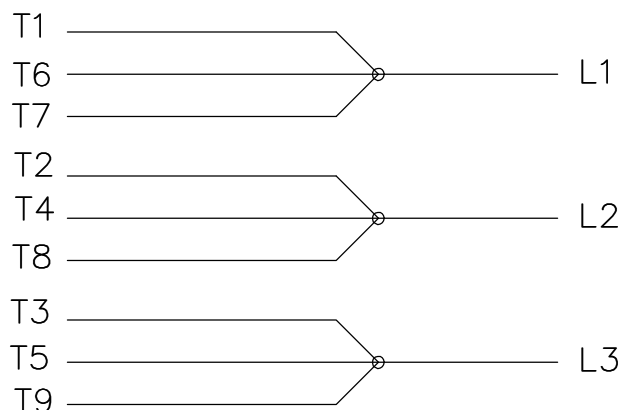
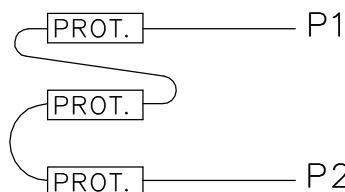
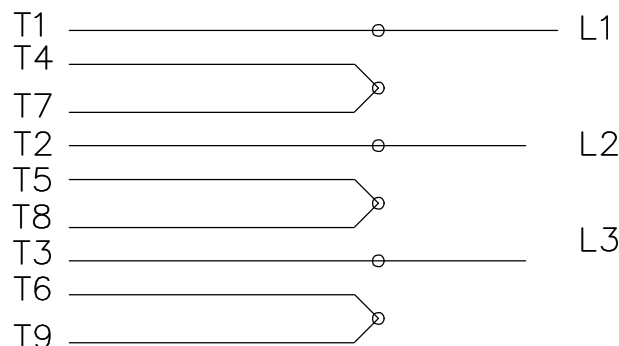
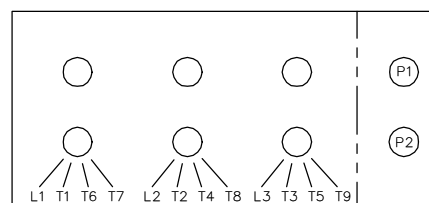
Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	1185 & 988 rpm	Service Factor	1.15 & 1.0
Frame	364T	Enclosure	Totally Enclosed Air Over
Thermal Protection	Thermostat	Efficiency	94.1 & 93.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	100/50 & 93/46.5 A	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
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	6	Rotation	Reversible
Resistance Main	.16 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	29.01 in
Frame Length	13.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 10:1		
Connection Drawing	EE7308AD	Outline Drawing	SS555794LE-1350



LOW VOLTAGEHIGH VOLTAGELOW VOLTAGE



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308AD
OUTLINE: B-SS555794LE-1350
WINDING: T365671

CAT #: 824562.00

R6 5

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
40	30	1200	1185	364T	TEAO	TTS	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	100/50&93/46.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF	93.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	80.0	3/4 LD PF	75.0	1/2 LD PF	64.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
177 LB-FT	290	350 LB-FT 198%	450 LB-FT 254%	0

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	15.0 LB-FT²	0 LB-FT²	25 SEC.	0	850 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	NONE	NO	NONE	UE - LEESON (EPO)

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						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
0.113	0.079	0.518	0.81	12.124	0.080	ODE

* N O T E S *			INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE
* N O T E S *			ENCODER: NONE NONE NONE
* N O T E S *			BRAKE: NONE NONE NONE
* N O T E S *			FT-LB: NA VOLTAGE: NONE HZ:
DATE: 2/1/2018			UL: Y-(LEESON UL REC)

Data Sheet

Date: 2/1/2018

824562.00



Data @ 460 V

Motor Load Data

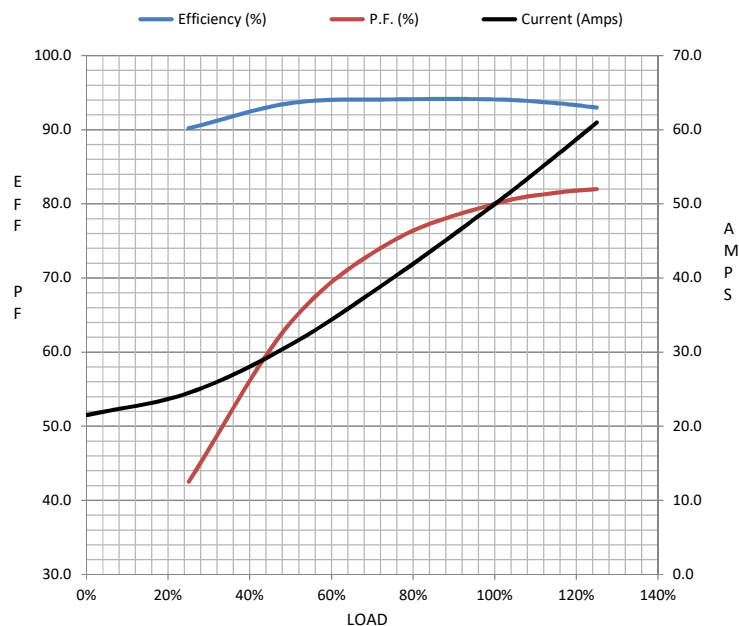
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	21.5	24.5	31.0	40.0	50.0	56.5	61.0	290	
Torque (ft-lb)	0.00	44.0	88.0	133	177	205	223	350	
RPM	1200	1195	1192	1188	1185	1,180	1178	0	
Efficiency (%)		90.2	93.6	94.1	94.1	93.6	93.0		
P.F. (%)	4.0	42.5	64.0	75.0	80.0	81.5	82.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1185	1200
Current (Amps)	290	250	175	50.0	21.5
Torque (ft-lb)	350	325	450	177	0.00

Information Block

HP	40.0			
Sync. RPM	1200			
Frame	364			
Enclosure	TEAO			
Construction	TTS			
Voltage	230/460#190/380		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	15.0		Lb-Ft²	
Ref Wdg	T365671 R6			
Sound Pressure @ 1M	999		dBA	
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS555794LE-1350			
Conn. Diag	A-EE7308AD			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1130	0.0790	0.5180	0.8100	12.1240



Speed - Torque Curve

