

PRODUCT INFORMATION PACKET



Model No: 171801.60

Catalog No: 171801.60

Severe Duty Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM, 445T Frame, TEFC



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Nameplate Specifications

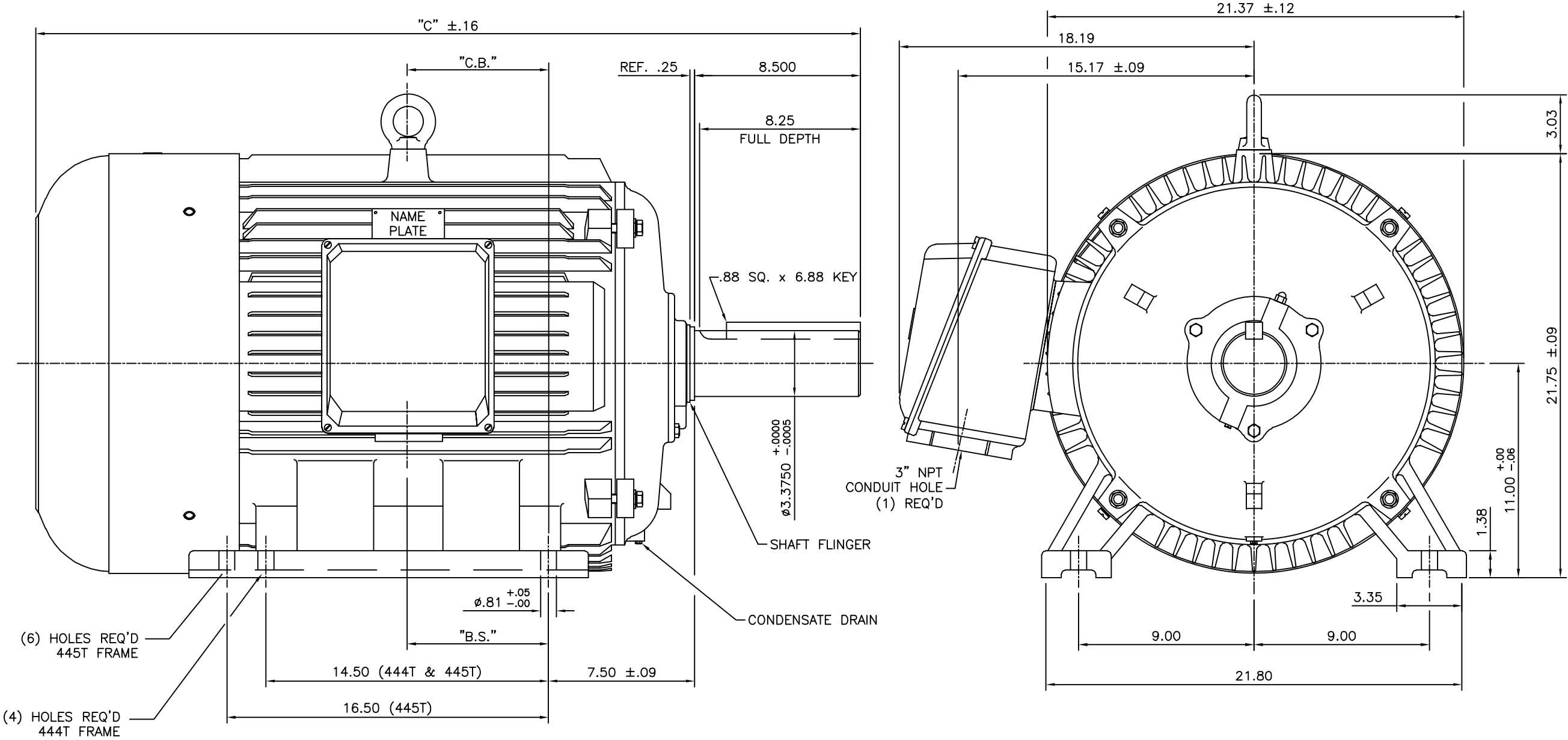
Phase	3	Output HP	125 & 100 Hp
Output KW	93.0 & 75.0 kW	Voltage	460 & 380 V
Speed	1192 & 992 rpm	Service Factor	1.15 & 1.15
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	155 & 150 A	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6317
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1	Hazardous Location	DIVISION 2

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	44.88 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	00519001	Outline Drawing	16954760

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169547-60



FRAME DESIGN	"C"	"C.B."	"B.S."
444T	42.87	7.25	---
445T	44.88	8.25	7.20

				TOLERANCES UNLESS SPECIFIED		 Regal-Beloit Corporation				DRAWN MOL 06-26-2012		
				DEC.	INCHES					CHK SB 06-26-2012		
				.X	±.1					APPD		
				.XX	±.03	TITLE OUTLINE-444T/445T FR.-TEFC-RIGID MEETS NEC/UL REQ.-BOX VOL=9750C.C.				SCALE 1=1		
				.XXX	±.005					REF		
1	ADDED "BS" DIM. PER ECO-0048910		RFH 04/07/14	EH	.XXXX					±.0005	MAT'L	
NO.	REVISION		BY & DATE	CHK	ANG	±1/2	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 16954760			SIZE	DRAWING NO.		REV.
				DIST					B	169547-60		



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 00519001
OUTLINE: 16954760
WINDING: T22806005

CAT #: 171801.60

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	1200	1192	445T	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	155&150	Y START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	94.5	GTD EFF	94.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	79.0	3/4 LD PF	75.0	1/2 LD PF	65.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
551 LB-FT	900	960 LB-FT 174%	1,285 LB-FT 233%	70

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	0.00 LB-FT²	0 LB-FT²	0 SEC.	0	0 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	DIVISION 2	NO	NONE	GREEN (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6318 6317						

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	0	0	0	0	0.080	ODE

* N O T E S *		INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 1/30/2018

BRAKE: NONE
 NONE
 NONE
FT-LB: NA
VOLTAGE: NONE
HZ:
UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/30/2018

171801.60



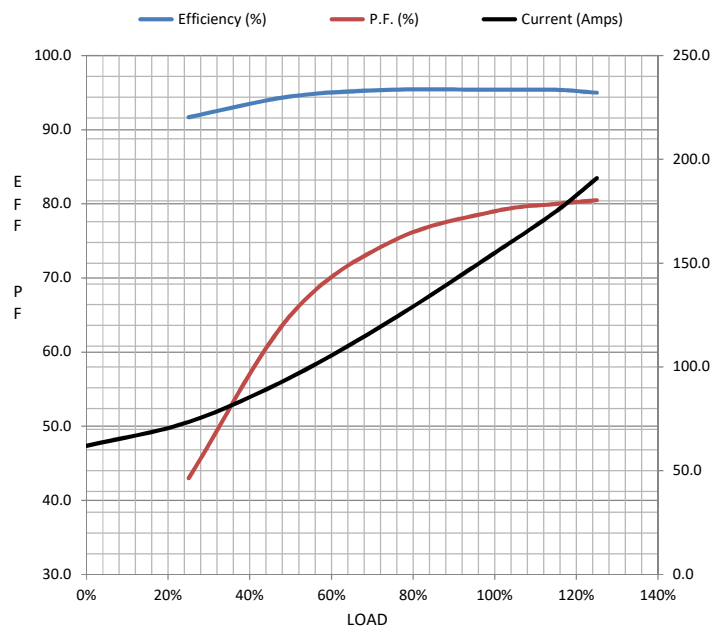
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	62.0	73.5	95.0	123	155	175	191	900	
Torque (ft-lb)	0.00	137	274	412	551	634	691	960	
RPM	1200	1198	1196	1194	1192	1,190	1188	0	
Efficiency (%)		91.7	94.5	95.4	95.4	95.4	95.0		
P.F. (%)	3.5	43.0	65.0	75.0	79.0	80.0	80.5	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block			
Speed (RPM)	0	600	1130	1192	1200	HP	125.0		
Current (Amps)	900	800	550	155	62.0	Sync. RPM	1200		
Torque (ft-lb)	960	825	1,285	551	0.00	Frame	445		



HP	125.0			
Sync. RPM	1200			
Frame	445			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380		V	
Frequency	60		Hz	
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	0.00		Lb-Ft²	
Ref Wdg	T22806005 NONE			
Sound Pressure @ 1M	999		dBA	
VFD Rating	VARIABLE 10:1			
Outline Dwg	16954760			
Conn. Diag	00519001			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed - Torque Curve

