

PRODUCT INFORMATION PACKET



Model No: 171315.60

Catalog No: 171315.60

WATTSaver® General Purpose Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM,
447T Frame, TEFC



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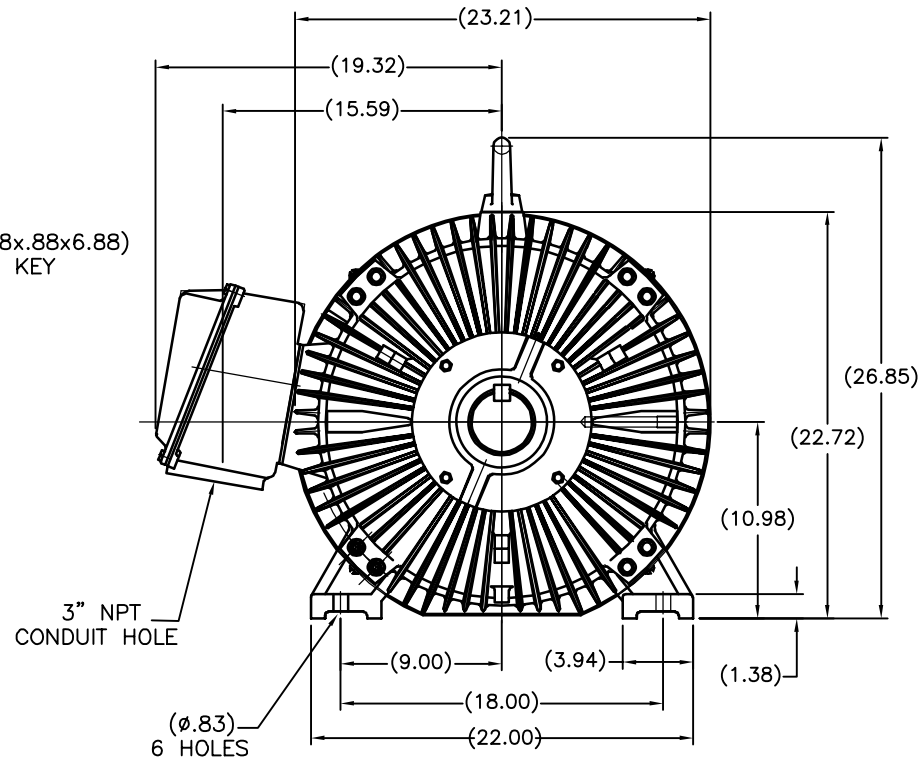
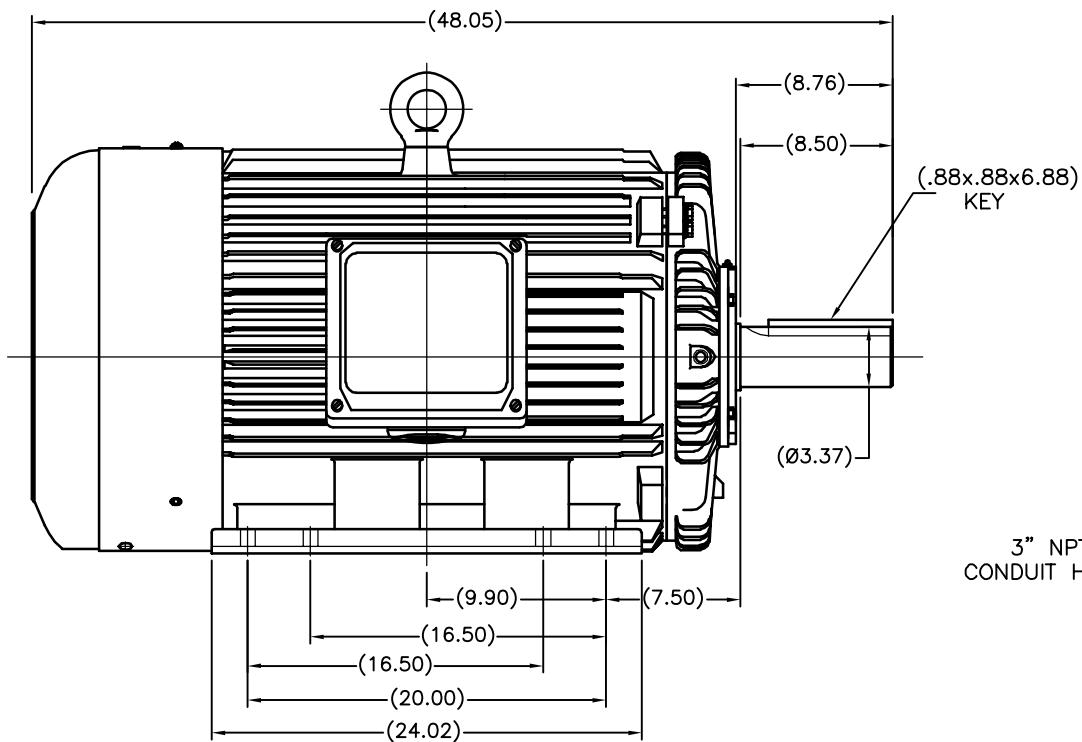
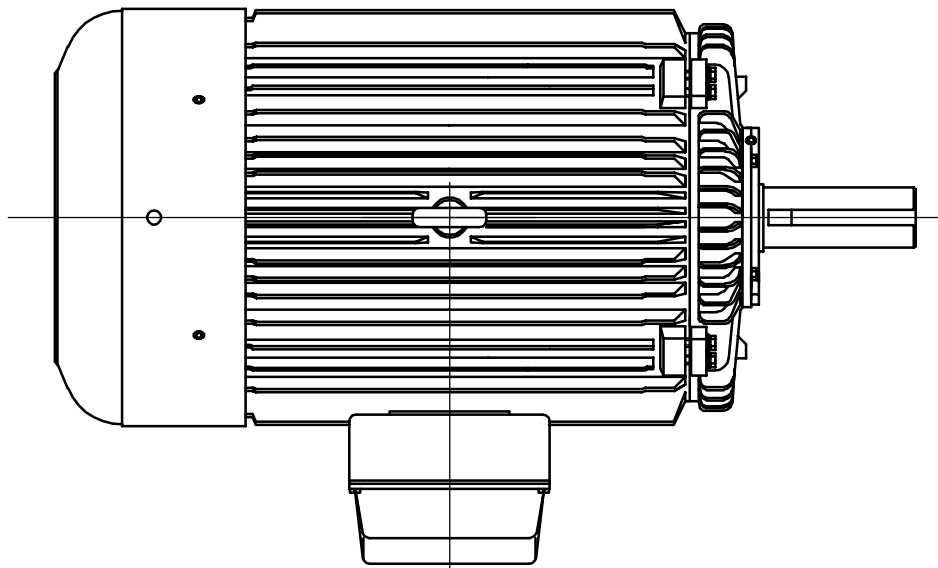
Nameplate Specifications

Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	1195 & 995 rpm	Service Factor	1.15 & 1.15
Frame	447T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96.2 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	186 & 187 A	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.0201 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	48.05 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	00519001	Outline Drawing	16983360

16983360



		TOLERANCES UNLESS SPECIFIED		DRAWN MOL 06-30-2011	
		DEC.	INCHES	CHK	MOL 06-30-2011
		.X	±.1	APPD	
		.XX	±.03	SCALE	1=6
		.XXX	±.005	REF	
		.XXXX	±.0005	FMF	
		ANG	±1/2'	PREV	
		RFP	CAD FILE 16983360	SIZE	DRAWING NO. PAGE 1 OF 1 REV.
		DIST		B	16983360 2
		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			

REGAL REGAL-BELOIT CORPORATION

TITLE OUTLINE-447T FR-TEFC-RIGID
MEETS NEC/UL REQ CON-BOX VOL=9750

MAT'L CAST IRON

FINISH

LINE LEADS

	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

				TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION			
04	ADDED MAT'L (CWLE) PER ECO-0168542	DS	6/10/2019	DECIMALS					
03	ADDED IEC DESIGNATIONS	MOL	4/27/2012	.00	± .01	DRAWN PG 05/07/82	TITLE EXT. WIRING DIAGRAM		
02	REMOVED OBSOLETE STATUS	KJH	6/28/99	.000	± .005	CH'K'D. TEM	STAR START - DELTA RUN		
01	REDRAWN ON CAD	DBT	05/30/97	.0000	± .0005	APPR. 05/07/82	MAT'L. Y-CONNECTED START (CWLE)		
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE 1=1	DELTA CONNECTED RUN - SINGLE VOLTAGE		
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				ANGLES	± 1/2°	REF. T2E	FINISH	SIZE	DRAWING NO.
				INCH/MM		FMF ELECTRO POWER		A	005190-01



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 00519001
OUTLINE: 16983360
WINDING: T22806012

CAT #: 171315.60

NONE 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	1200	1195	447T	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	186&187	START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	96.2	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF	95.4	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	78.5	3/4 LD PF	75.0	1/2 LD PF	66.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
660 LB-FT	1,085	950 LB-FT 144%	1,450 LB-FT 220%	55

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
67 dBA	76 dBA	0.00 LB-FT²	0 LB-FT²	20 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	NO	NONE	NO	NONE	IN - LEESON WATTS

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
6319	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	0.150	ODE

* N O T E S *			INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE
			ENCODER: NONE NONE NONE
			BRAKE: NONE NONE NONE
			FT-LB: NA VOLTAGE: NONE UL: V-INS, CONST UL REC
DATE: 2/1/2018			HZ:

Data Sheet

Date: 2/1/2018

171315.60



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	67.0	83.0	111	146	186	212	230	1,085	
Torque (ft-lb)	0.00	164	329	494	660	759	827	950	
RPM	1200	1199	1198	1196	1195	1,192	1190	0	
Efficiency (%)		91.7	95.4	95.8	96.2	95.8	95.8		
P.F. (%)	4.0	46.0	66.5	75.0	78.5	79.0	79.5	23.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	600	1150	1195	1200					
Current (Amps)	1,085	1,000	625	186	67.0					
Torque (ft-lb)	950	850	1,450	660	0.00					
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS)						Information Block				
						HP		150.0		
						Sync. RPM		1200		
						Frame		447		
						Enclosure		TEFC		
						Construction		TFC		
						Voltage		460#380		V
						Frequency		60		Hz
						Design		B		
						LR Code letter		G		
						Service Factor		1.15		
						Temp Rise @ FL		55		°C
						Duty		CONT		
						Ambient		40		°C
						Elevation		1,000		feet
						Rotor/Shaft wk²		0.00		Lb-Ft²
						Ref Wdg		T22806012 NONE		
Sound Pressure @ 1M		67		dBA						
VFD Rating		CONSTANT 10:1								
Outline Dwg		16983360								
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

