

PRODUCT INFORMATION PACKET



Model No: 170352.60

Catalog No: 170352.60

WATTSaver® General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM,
447T Frame, TEFC



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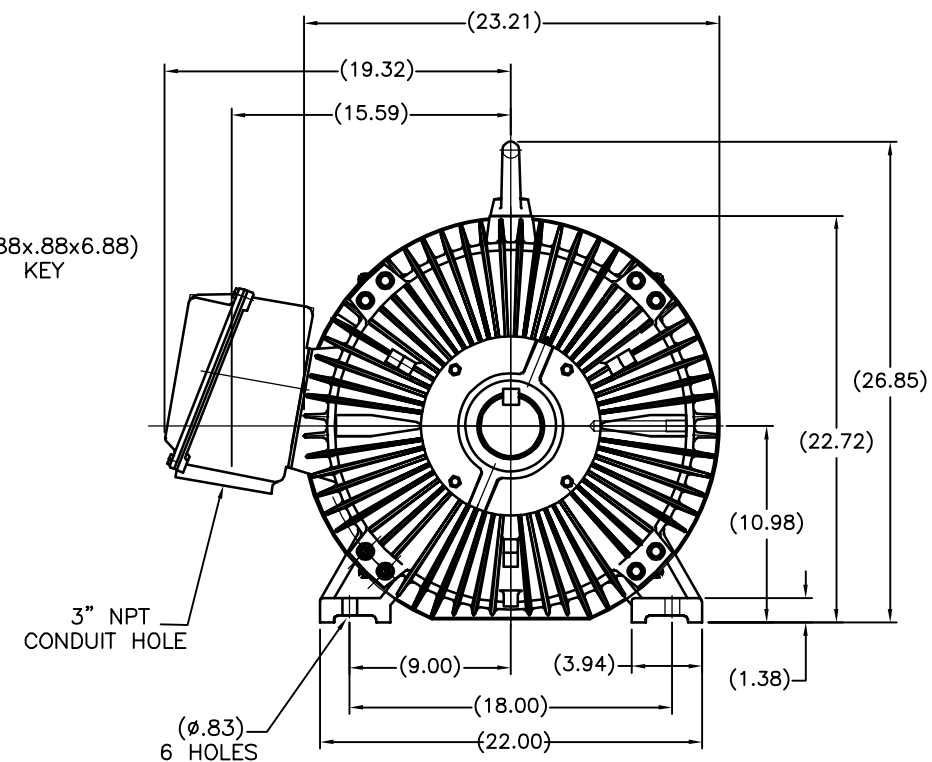
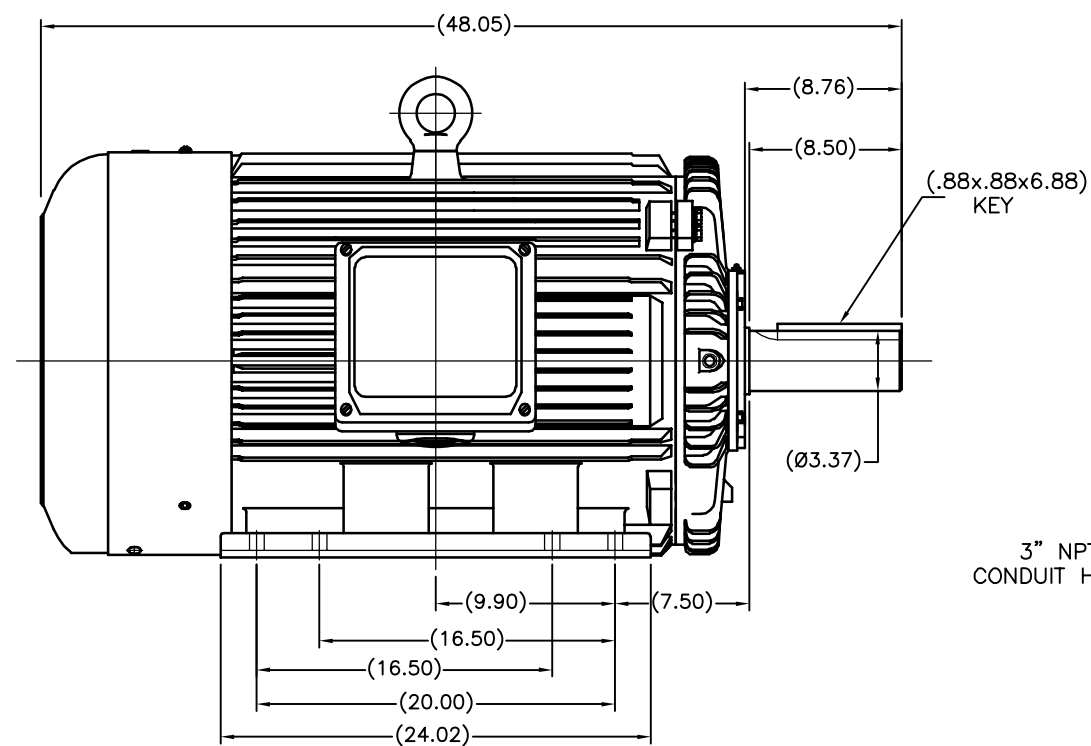



Nameplate Specifications

Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	1790 & 1490 rpm	Service Factor	1.15 & 1.15
Frame	447T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96.2 & 96.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	219 & 197 A	Power Factor	89.5
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		

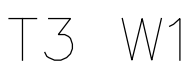
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0156 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		
Outline Drawing	16983360	Connection Drawing	00519001



				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN MOL 06-30-2011		
				DEC.	INCHES		CHK MOL 06-30-2011		
				.X	±.1		APPD		
				.XX	±.03		SCALE 1=6		
2	ADDED 'BS' DIM PER ECO-0048910	RFH 04/07/2014	EH	.XXX	±.005	TITLE OUTLINE-447T FR-TEFC-RIGID MEETS NEC/UL REQ CON-BOX VOL=9750		REF	
1	ADDED TOP VIEW	MOL 11-26-2012		.XXXX	±.0005	MAT'L. CAST IRON		FMF	
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 16983360		SIZE B	DRAWING NO. PAGE 1 OF 1 16983360	REV. 2
			DIST						

005190-01



START
(WYE)

04	ADDED MAT'L (CWLE) PER ECO-0168542
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03	ADDED IEC DESIGNATIONS	MOL
02	REMOVED OBSOLETE STATUS	KJH
01	REDRAWN ON CAD	DBT

NO.	REVISION	BY
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TOLERANCES UNLESS
OTHERWISE SPECIFIED

DECIMALS

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FRACTIONS	$\pm 1/64$
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ANGLES	$\pm 1/2^\circ$
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INCH/MM	
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LEESON

DRAWN PG 05/07/82

APPR. 05/07/82

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

CATALOG #: 170352.60

CONN. DIAGRAM: 00519001

OUTLINE: 16983360

MOUNTING: F1/F2 CAPABLE

WINDING #: T22804022 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
200&150	149&112	1800	1790&1490	447T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB °C
3	60/50	460&380	219&197	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	96.2&96.2	3/4 LOAD EFF:	96.2	1/2 LOAD EFF:	95.8	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	89.5&90	3/4 LOAD PF:	88	1/2 LOAD PF:	84.5	95.4		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE °C
588 LB-FT	1388	850 LB-FT 144 %	1361 LB-FT 231 %	72

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK ^2	MAX. WK ^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	- LB-FT ^2	- LB-FT ^2	20 SEC.	2	2300 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

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						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 2:1

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 NO BRAKE Hz

Data Sheet

Date: 1/22/2018

170352.60



Data @ 460 V

Motor Load Data

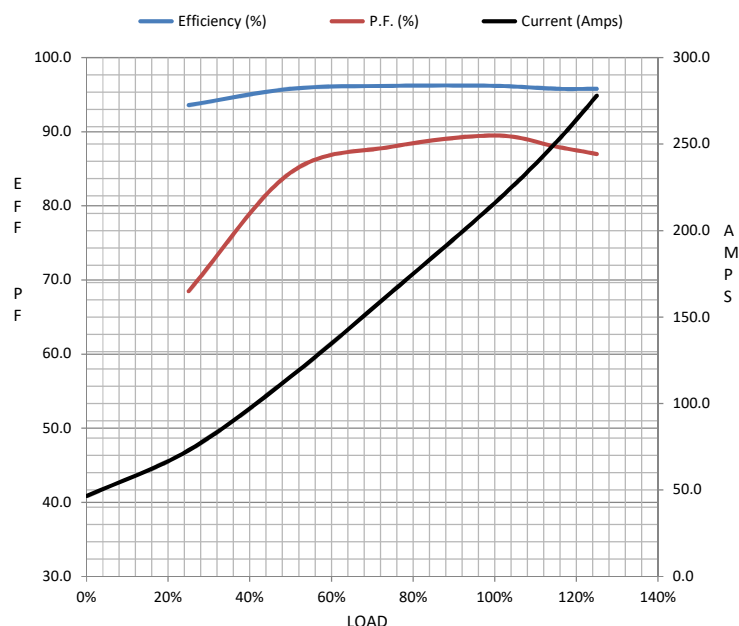
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	46.5	73.0	116	165	216	251	278	1,388	
Torque (ft-lb)	0.00	146	294	440	588	676	736	850	
RPM	1800	1797	1795	1792	1790	1,788	1785	0	
Efficiency (%)		93.6	95.8	96.2	96.2	95.8	95.8		
P.F. (%)	6.0	68.5	84.5	88.0	89.5	88.0	87.0	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	650	1730	1790	1800
Current (Amps)	1,388	1,318	765	216	46.5
Torque (ft-lb)	850	692	1,361	588	0.00

Information Block

HP	200.0			
Sync. RPM	1800			
Frame	445			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	T22804022 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 2:1			
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

