

PRODUCT INFORMATION PACKET



Model No: 171524.60

Catalog No: 171524.60

WATTSaver® General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM,
445T Frame, DP



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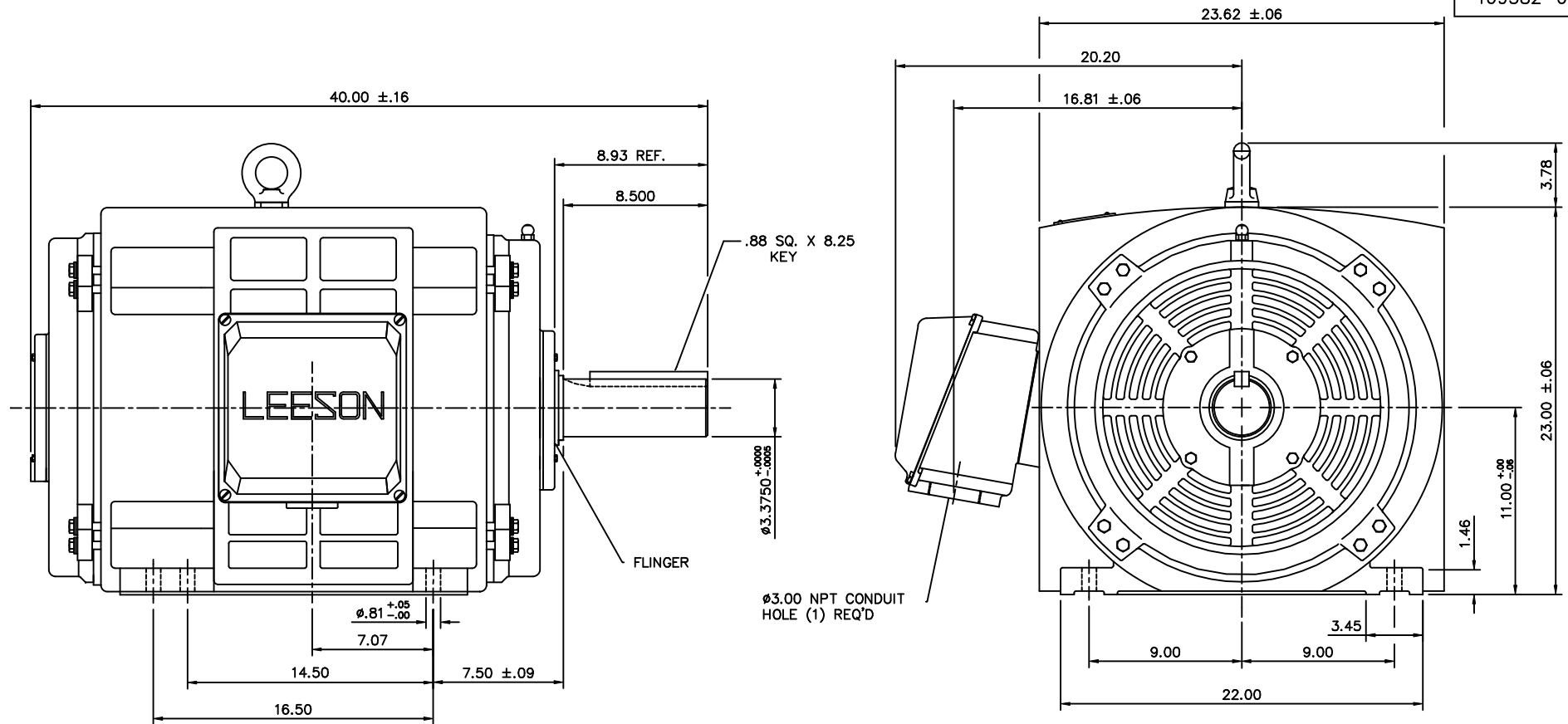
Nameplate Specifications

Phase	3	Output HP	250 & 200 Hp
Output KW	187.0 & 149.0 kW	Voltage	460 & 380 V
Speed	1788 & 1488 rpm	Service Factor	1.15 & 1.15
Frame	445T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	288 & 280 A	Power Factor	84.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	22
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	.006 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	40.00 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	005190-03	Outline Drawing	16958260

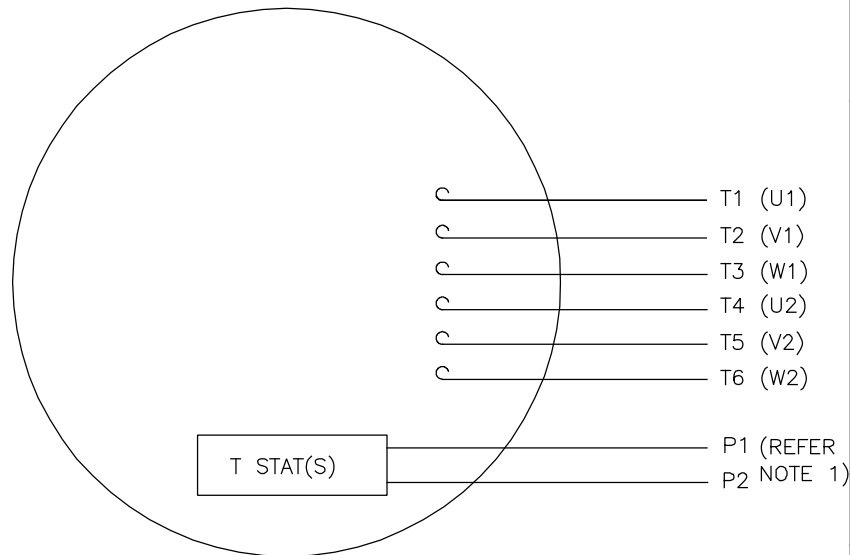
169582-60



						TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION				
						DECIMALS						
						.00	± .03	DRAWN	LEM 10/01/99	TITLE OUTLINE - 444T/445T FRAME, OPEN DRIP PROOF, RIGID MOUNT, MEETS NEC/UL CON-BOX VOLUME = 13800 CC		
						.000	± .005	CH'K'D.	ADS 10/15/99			
						.0000	± .0005	APPR.	ADS 10/15/99			
NO.	REVISION			BY	DATE	FRACTIONS	± 1/64	SCALE	1=6		CAST IRON	
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.	FINISH	SIZE		DRAWING NO. 169582-60
						INCH/MM		FMF				

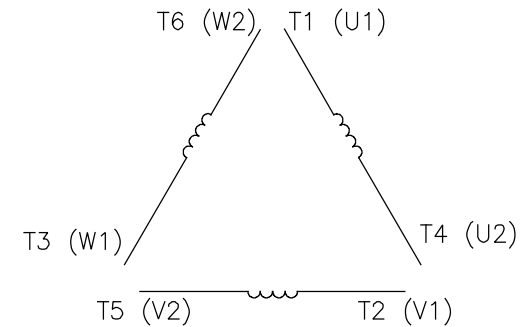
ERROR: undefined
OFFENDING COMMAND: Pscript_WinN
STACK:

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END

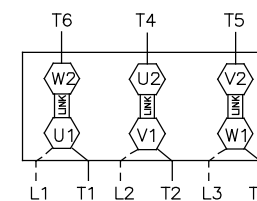
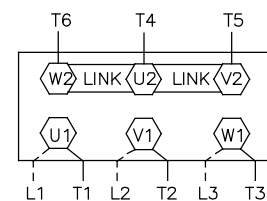


NOTE: 1. USE RED LEADS FOR LEESON CHANNEL
 2. USE 081380 DECAL FOR LB MODELS
 USE 080088 DECAL FOR MT2 MODELS

LINE LEADS



WYE-DELTA CONNECTION, SINGLE VOLTAGE

DELTA RUN
(Δ - CONNECTION)WYE START
(Y - CONNECTION)

NOTE: USE TERMINAL BLOCK WHEN SPECIFIED

	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)	

DRAWING REVISION A	REVISION BY MVG	DATE 02/15/2018
ECO ECO-0139864	APPROVED BY SR	DATE 02/15/2018
ECO DESCRIPTION UPDATED PER ECO-0139864		

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TOLERANCES UNLESS OTHERWISE SPECIFIED			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.02	[±0.51]	
.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 $\sqrt{125}$ mm $\sqrt{3.2}$			
mm SHOWN IN [BRACKETS]			

DRAWN BY: SL	DATE: 08/20/15
APPROVED BY: CD	DATE: 08/20/15
REFERENCE 005190-01	THIRD ANGLE PROJECTION



Regal Beloit America, Inc.

DESCRIPTION
 EXT WIRING DIA SINGLE VOLTAGE
 STAR START- DELTA RUN

MATERIAL
 REFER NOTE 2

SIZE DWG NO
 A 005190-03

SHEET
 1



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005190-03

CAT #: 171524.60

OUTLINE: 16958260

WINDING: T22804032

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	1800	1788	445T	DP	TDC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	288&280	START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	95.8	1/2 LD EFF	95.4	GTD EFF		ELECT. TYPE	
F.L. PF	84.5	3/4 LD PF	82.0	1/2 LD PF	75.0		95.4	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
735 LB-FT	1,825	1,300 LB-FT 177%	1,700 LB-FT 231%	50

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
85 dBA	94 dBA	0.00 LB-FT²	0 LB-FT²	15 SEC.	1	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	N - LEESON WATTS

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
6318	6314						

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: CONSTANT 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: 1/31/2018			UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/31/2018

171524.60



Data @ 460 V

Motor Load Data

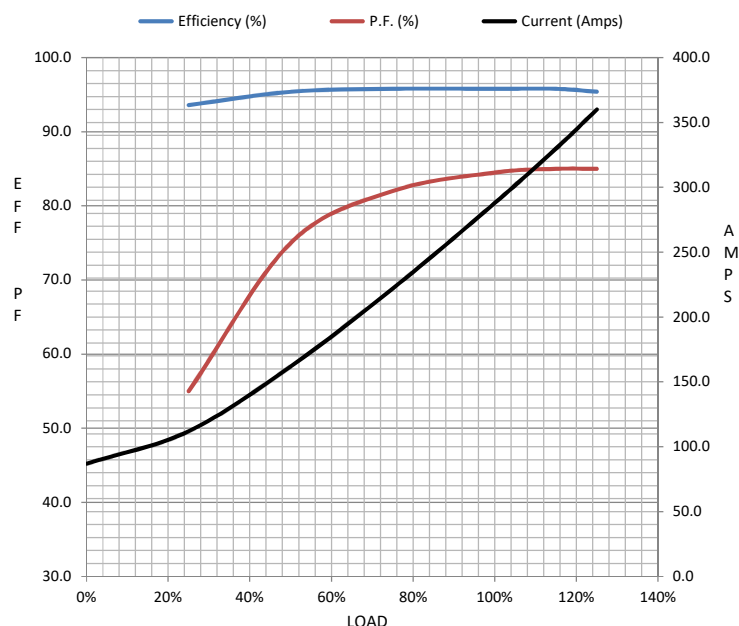
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	87.0	112	162	222	288	330	360	1,825	
Torque (ft-lb)	0.00	183	366	550	735	845	920	1,300	
RPM	1800	1798	1795	1790	1788	1,786	1784	0	
Efficiency (%)		93.6	95.4	95.8	95.8	95.8	95.4		
P.F. (%)	4.0	55.0	75.0	82.0	84.5	85.0	85.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1735	1788	1800
Current (Amps)	1,825	1,600	1,000	288	87.0
Torque (ft-lb)	1,300	1,150	1,700	735	0.00

Information Block

HP	250.0			
Sync. RPM	1800			
Frame	449			
Enclosure	DP			
Construction	TDC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	T22804032 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	16958260			
Conn. Diag	005190-03			
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

