

PRODUCT INFORMATION PACKET



Model No: 171802.60

Catalog No: 171802.60

Severe Duty Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 445TS Frame, TEFC



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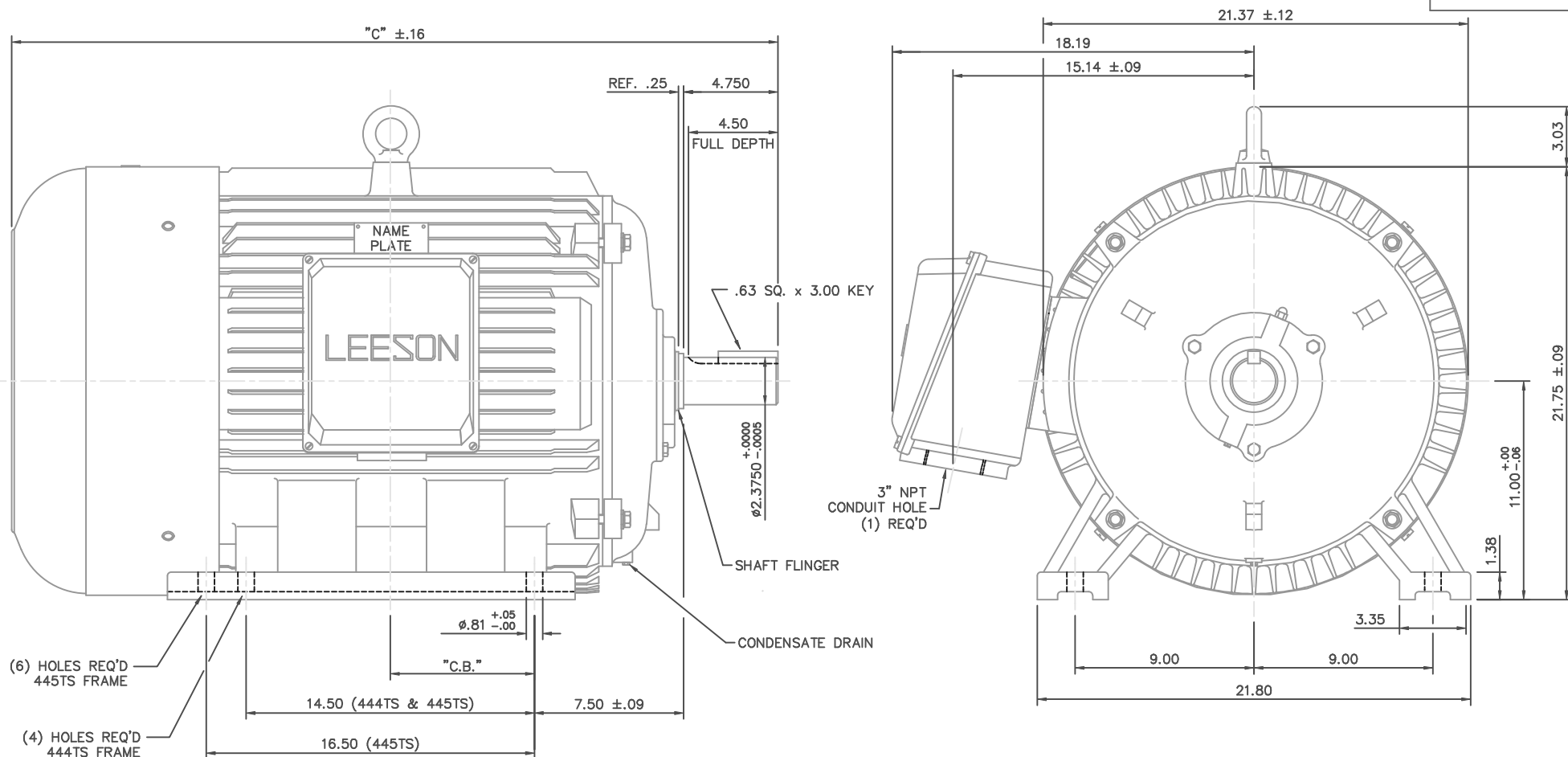


Nameplate Specifications

Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	3580 & 2980 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	163 & 164 A	Power Factor	90.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.018 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	41.11 in
Shaft Diameter	2.375 in	Shaft Extension	4.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	16954860-445TS	Connection Drawing	00519001



FRAME DESIGN	"C"	"C.B."
444TS	39.10	7.25
445TS	41.11	8.25

				TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION			
				DECIMALS					
				.00	± .06	DRAWN JJK 03/30/99	TITLE OUTLINE – 444TS/445TS FRAME TEFC – RIGID METS NEC/UL REQ. CON-BOX VOL.= 9750 C.C.		
				.000	± .005	CH'K'D.			
01	ADDED BASE HOLES FOR 445TS FRAME	JJK	07/16/99	.0000	± .0005	APPR. PG 03/31/99	MAT'L CAST IRON		
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE 1=5			
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. 169507	FINISH	DRAWING NO.	
				INCH/MM		FMF		SIZE B	169548-60



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 00519001
OUTLINE: 16954860
WINDING: T22802006

CAT #: 171802.60

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
150	112	3600	3580	445TS	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	163&164	Y START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	94.1	GTD EFF	94.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	90.5	3/4 LD PF	90.0	1/2 LD PF	86.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
220 LB-FT	1,021	385 LB-FT 175%	628 LB-FT 285%	78

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
78 dBA	87 dBA	0.00 LB-FT²	120 LB-FT²	15 SEC.	2	1440 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	GREEN (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	TS	NONE	NONE	AISI 1045 (C-240)	CAST IRON
6314 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
0.014	0.013	0.166	0.14	5.16	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: 1/31/2018

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

Data Sheet

Date: 1/31/2018

171802.60



Data @ 460 V

Motor Load Data

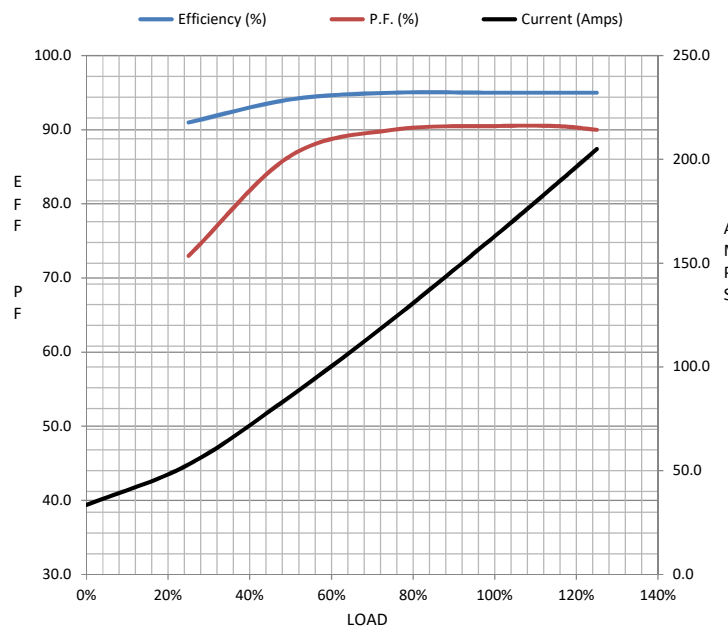
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	33.5	53.0	86.0	123	163	188	205	1,021	
Torque (ft-lb)	0.00	55.0	110	165	220	253	275	385	
RPM	3600	3595	3590	3585	3580	3,575	3575	0	
Efficiency (%)		91.0	94.1	95.0	95.0	95.0	95.0		
P.F. (%)	10.0	73.0	86.5	90.0	90.5	90.5	90.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3515	3580	3600
Current (Amps)	1,021	850	560	163	33.5
Torque (ft-lb)	385	267	628	220	0.00

Information Block

HP	150.0			
Sync. RPM	3600			
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	78 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	T22802006 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	16954860			
Conn. Diag	00519001			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0140	0.0130	0.1660	0.1400	5.1600



Speed - Torque Curve

