

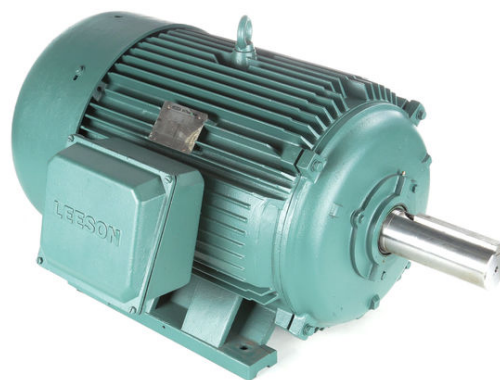
# PRODUCT INFORMATION PACKET



Model No: 171805.60

Catalog No: 171805.60

Severe Duty Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 447TS Frame, TEFC



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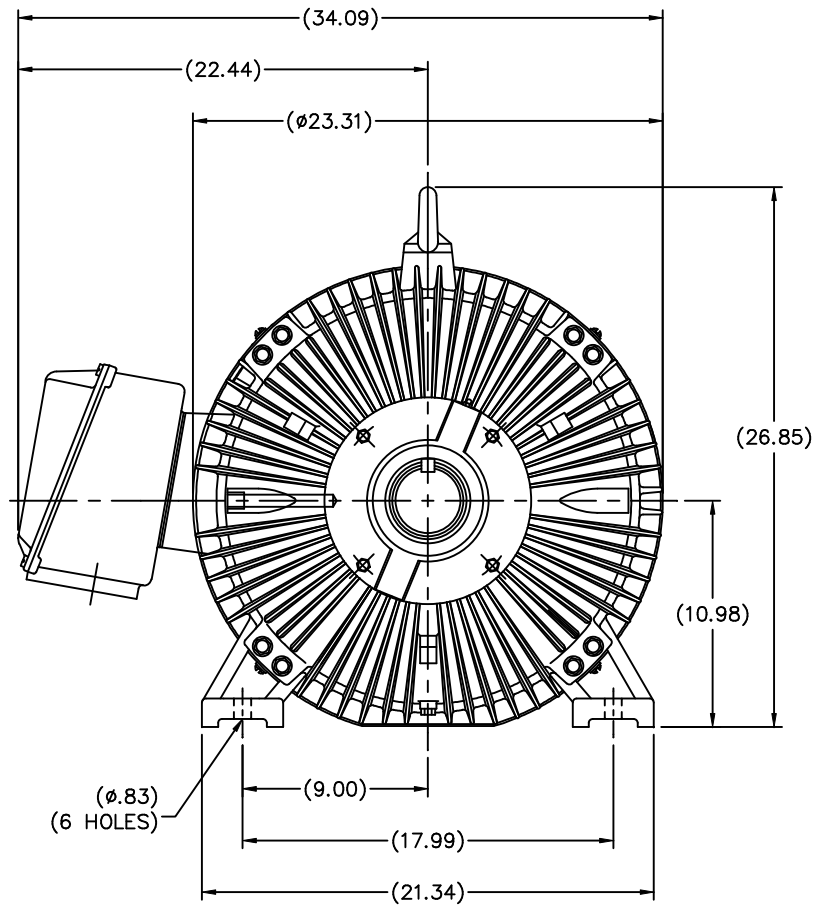
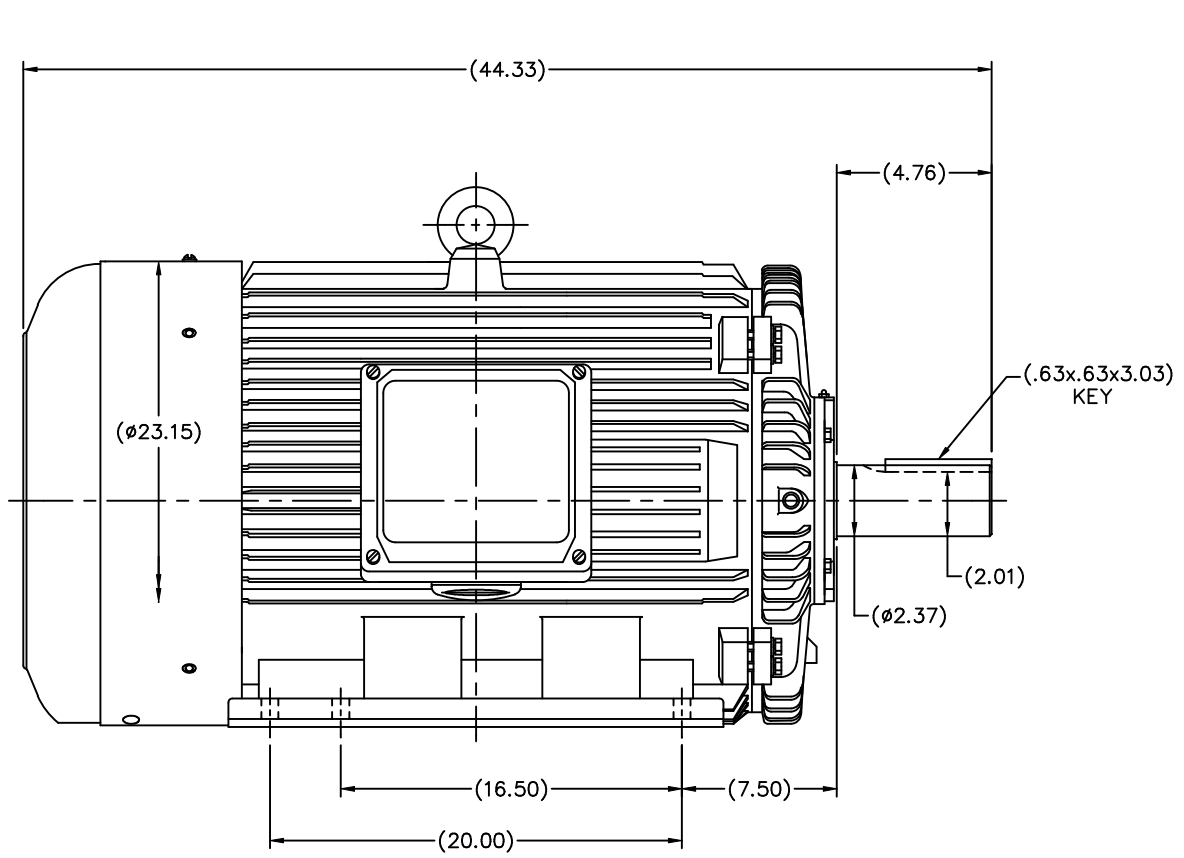


### Nameplate Specifications


Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	3575 & 2985 rpm	Service Factor	1.15 & 1.15
Frame	447TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	216 & 194.5 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	Hazardous Location	DIVISION 2

### Technical Specifications

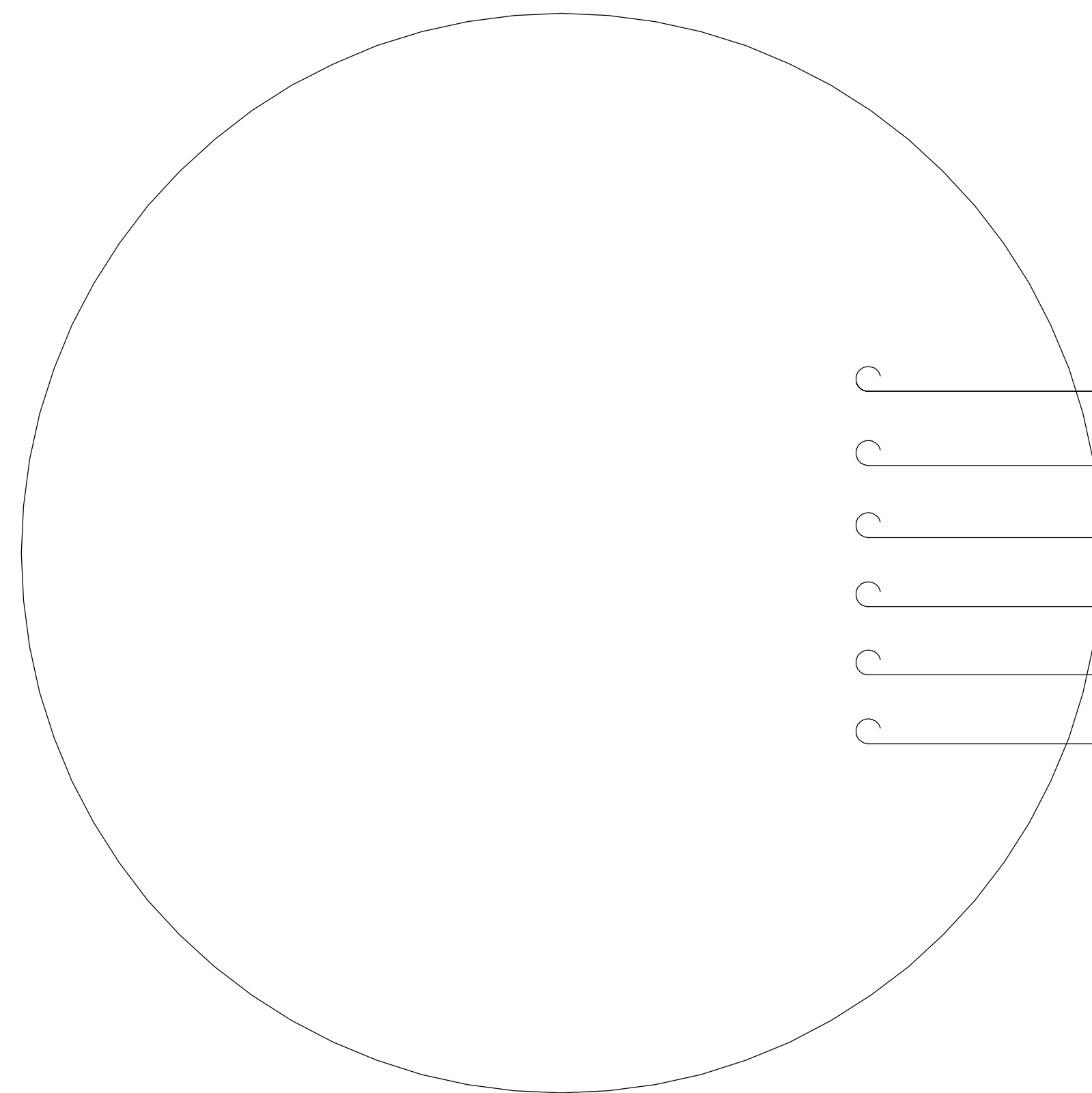
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.0123 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	44.33 in
Shaft Diameter	2.375 in	Shaft Extension	4.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	00519001	Outline Drawing	SS622204LE



(MAY NOT BE DRAWN TO SCALE)

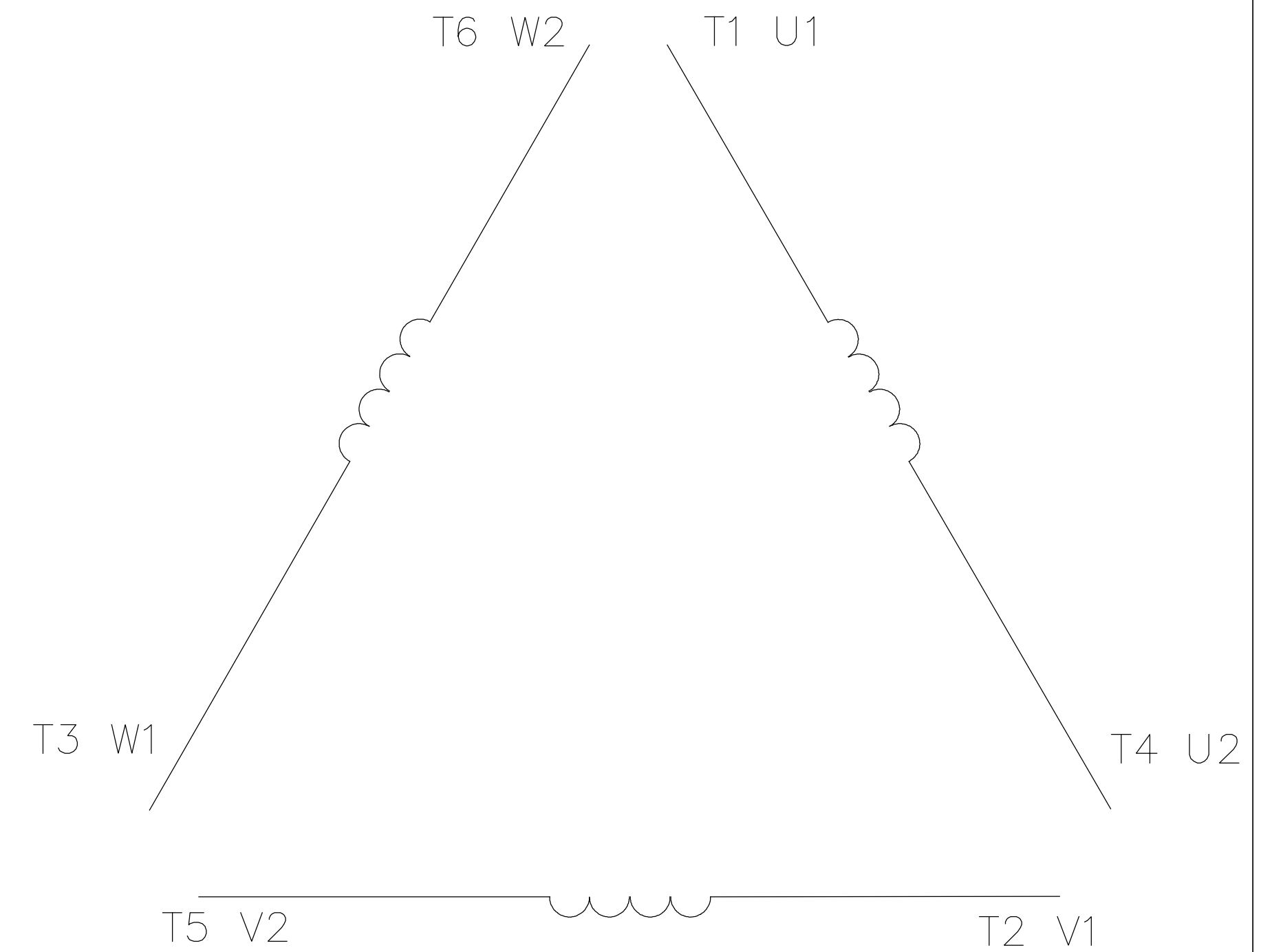
		TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN MSG 09-05-2007			
	DEC.	INCHES			CHK ML 09-06-2007			
	.X	±.1			APPD SB 09-06-2007			
	.XX	±.03			SCALE 1=6			
	.XXX	±.005			REF (171579.60)			
	.XXXX	±.0005		FMF HEBEI				
NO.	REVISION	BY & DATE	CHK ANG ±7'30"	FINISH	PREV			
THIS 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 SS622204LE	SIZE B	DRAWING NO. SS622204LE	PAGE OF	REV.
			DIST WA					

005190-01



- T1 U1
- T2 V1
- T3 W1
- T4 U2
- T5 V2
- T6 W2

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



**CERTIFICATION DATA SHEET**

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

**CATALOG #:** 171805.60

**CONN. DIAGRAM:** 00519001

**OUTLINE:** SS622204LE

**MOUNTING:** F1/F2 CAPABLE

**WINDING #:** T22802005 0 A

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
200&150	149&112	3600	3575&2985	447TS	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	216&194.5	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	95.4&94.5	3/4 LOAD EFF:	95.4	1/2 LOAD EFF:	94.5	GTD. EFF	95	ELEC. TYPE	SQ CAGE INV RATED
FULL LOAD PF:	90.5&91	3/4 LOAD PF:	90.8	1/2 LOAD PF:	88.5				

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
293 LB-FT	1450	425.5 LB-FT 145 %	729 LB-FT 248 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
77 dBA	87 dBA	- LB-FT^2	- LB-FT^2	15 SEC.	2	2048 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2	FALSE	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						

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

\*  
N  
O  
T  
E

<b>INVERTER TORQUE:</b> VARIABLE 10:1
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE
NONE NONE
NONE NONE PPR
<b>BRAKE:</b> NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/19/2018

171805.60



Data @ 460 V

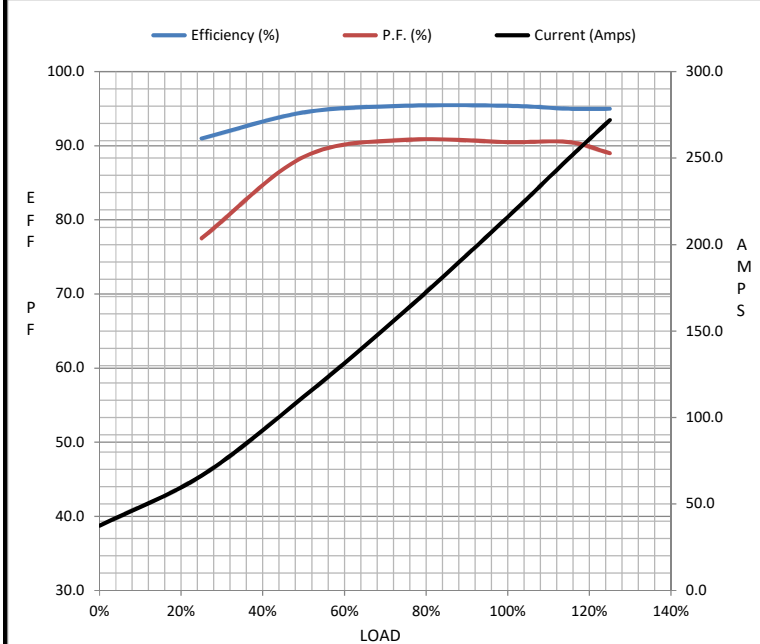
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	37.5	66.5	112	162	216	250	272	1,450
Torque (ft-lb)	0.00	73.0	147	220	293	338	368	426
RPM	3600	3595	3590	3585	3580	3,575	3570	0
Efficiency (%)		91.0	94.5	95.4	95.4	95.0	95.0	
P.F. (%)	11.5	77.5	88.5	90.8	90.5	90.5	89.0	24.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3485	3580	3600
Current (Amps)	1,450	1,385	860	216	37.5
Torque (ft-lb)	426	360	729	293	0.00

Information Block				
HP	200.0			
Sync. RPM	3600			
Frame	447			
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 wk <sup>2</sup>	0.00 Lb-Ft <sup>2</sup>			
Ref Wdg	T22802005 NONE			
Sound Pressure @ 1M	77 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS622204LE			
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

