

PRODUCT INFORMATION PACKET



Model No: 171807.60

Catalog No: 171807.60

Severe Duty Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM, 447/449T Frame,
TEFC



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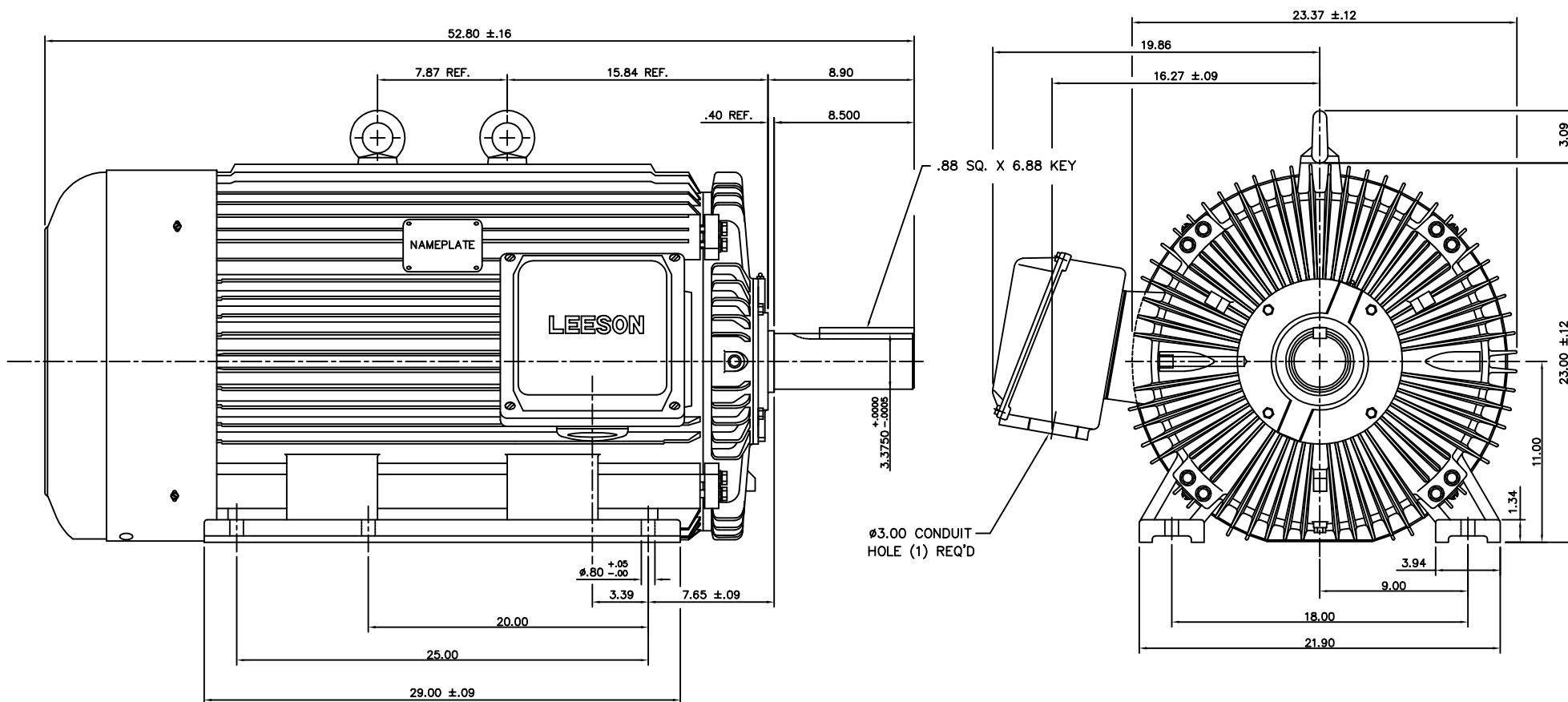
Nameplate Specifications

Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	1193 & 995 rpm	Service Factor	1.15 & 1.15
Frame	447/449T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	96.2 & 96.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	241 & 220 A	Power Factor	80.5
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	55
Number of Speeds	1		

Technical Specifications

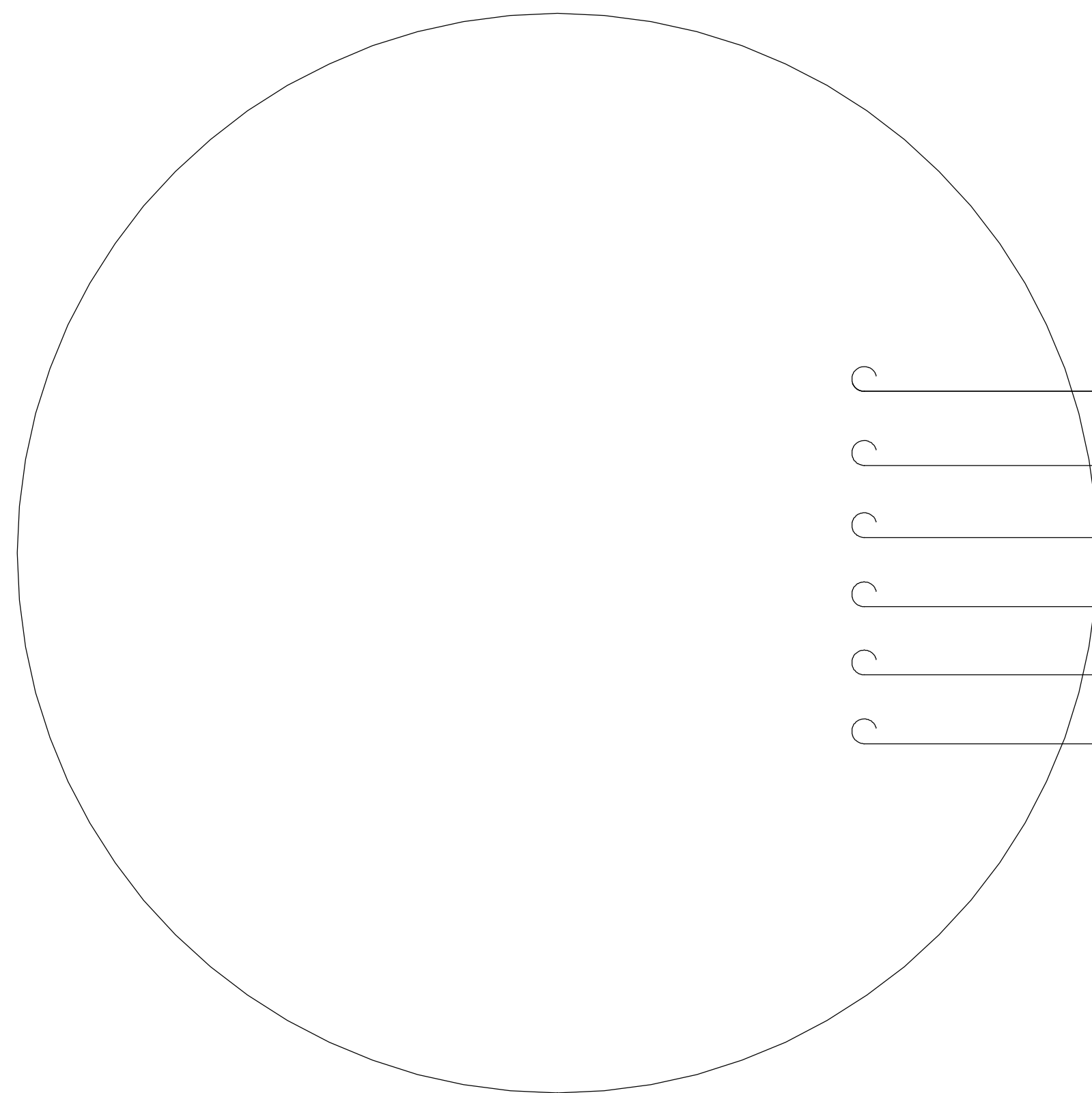
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.014 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	52.80 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	00519001	Outline Drawing	16958360

169583-60



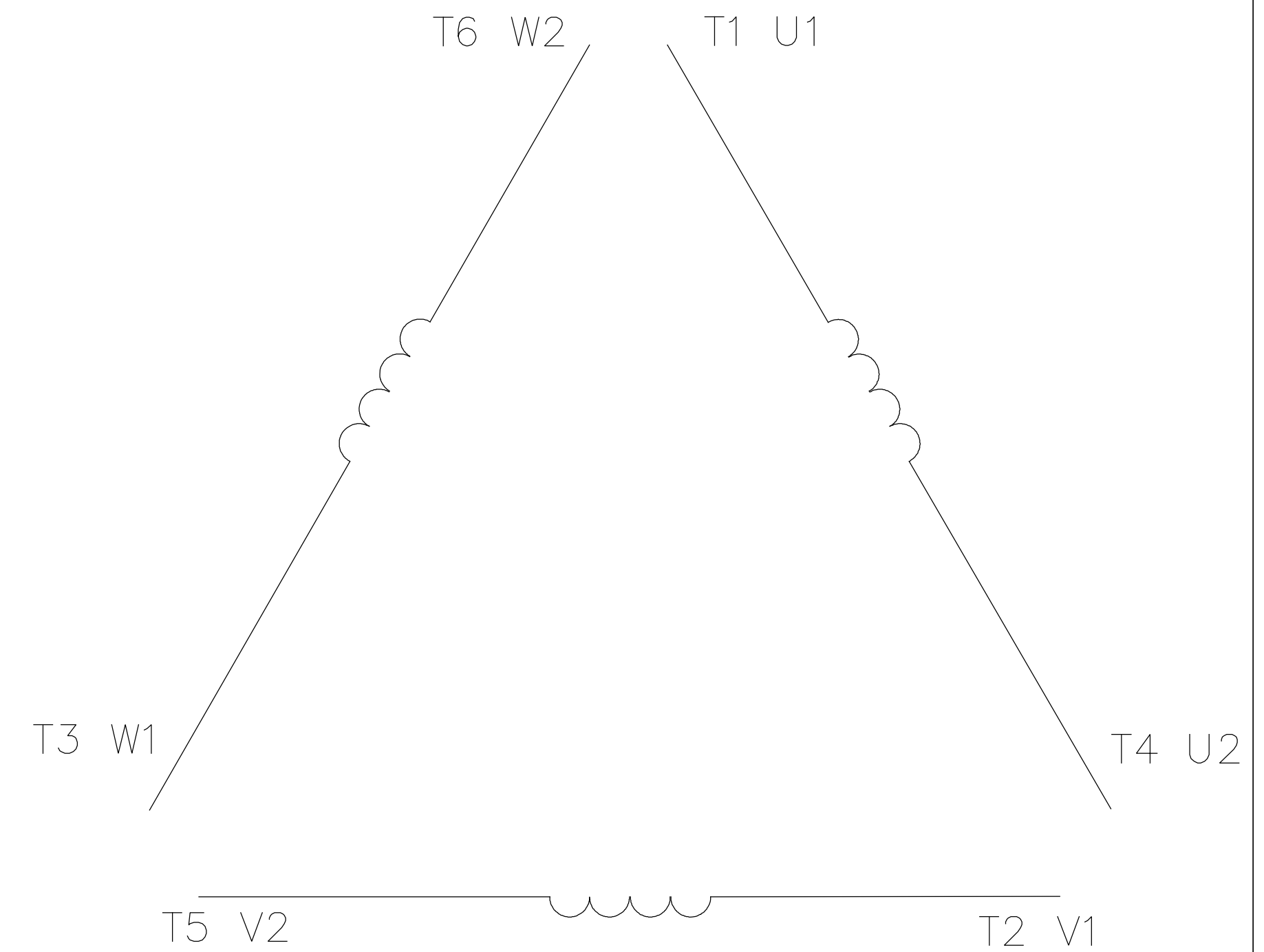
					TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION				
					DECIMALS						
					.00	± .03	DRAWN	LEM 10/04/99	TITLE OUTLINE - 449T FRAME TEFC - RIGID MOUNT MEETS NEC/UL REQ. CON-BOX VOL. = 9750		
					.000	± .005	CHK'D.	ADS 11/08/99			
01	REDRAWN TO CURRENT CAD STANDARDS	CJK	09/17/01		.0000	± .0005	APPR.	ADS 11/08/99	MAT'L.	CAST IRON	
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE	1=6				
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.	
					INCH/MM		FMF		B	169583-60	

005190-01



A diagram of a multi-ported device. It consists of a central vertical curved line. To the left of this line are six horizontal lines, each starting with a 'C' symbol. To the right of the central line are six horizontal lines, each starting with a 'T' symbol. Further to the right, there are six horizontal lines, each starting with a 'U' or 'V' symbol. The lines are connected as follows: the top 'C' line connects to the top 'T' line, which then connects to the top 'U' line. The second 'C' line connects to the second 'T' line, which then connects to the second 'V' line. The third 'C' line connects to the third 'T' line, which then connects to the third 'W' line. The fourth 'C' line connects to the fourth 'T' line, which then connects to the fourth 'U' line. The fifth 'C' line connects to the fifth 'T' line, which then connects to the fifth 'V' line. The sixth 'C' line connects to the sixth 'T' line, which then connects to the sixth 'W' line.

Port Label	Port Label	Port Label
C	T1	U1
C	T2	V1
C	T3	W1
C	T4	U2
C	T5	V2
C	T6	W2



	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	EXT. WIRING DIAGRAM STAR START – DELTA RUN		
02	REMOVED OBSOLETE STATUS	KJH	6/28/99	.000	± .005	CH'K'D. TEM			
01	REDRAWN ON CAD	DBT	05/30/97	.0000	± .0005	APPR. 05/07/82	MAT'L. Y-CONNECTED START (CWLE) DELTA CONNECTED RUN – SINGLE VOLTAGE		
NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE 1=1			
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 A	DRAWING NO. 005190-01
				INCH/MM		FMF ELECTRO POWER			



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 00519001
OUTLINE: 16958360
WINDING: T22806011

CAT #: 171807.60

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1200	1193	447/449T	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	241&220	START D RUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	96.2	3/4 LD EFF	96.2	1/2 LD EFF	95.4	GTD EFF	95.4	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	80.5	3/4 LD PF	77.0	1/2 LD PF	68.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
880 LB-FT	1,450	1,225 LB-FT 139%	2,100 LB-FT 239%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
63 dBA	72 dBA	0.00 LB-FT²	0 LB-FT²	20 SEC.	2	2647 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	DIVISION 2	NO	NONE	GREEN (EPOXY)

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	0.080	ODE

* N O T E S *		INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE
		NONE PPR

DATE: 2/20/2018	BRAKE: NONE	
	FT-LB: NONE	NONE
	VOLTAGE: NA	NONE
	UL: Y-(LEESON UL REC)	HZ:

Data Sheet

Date: 2/20/2018

171807.60



Data @ 460 V

Motor Load Data

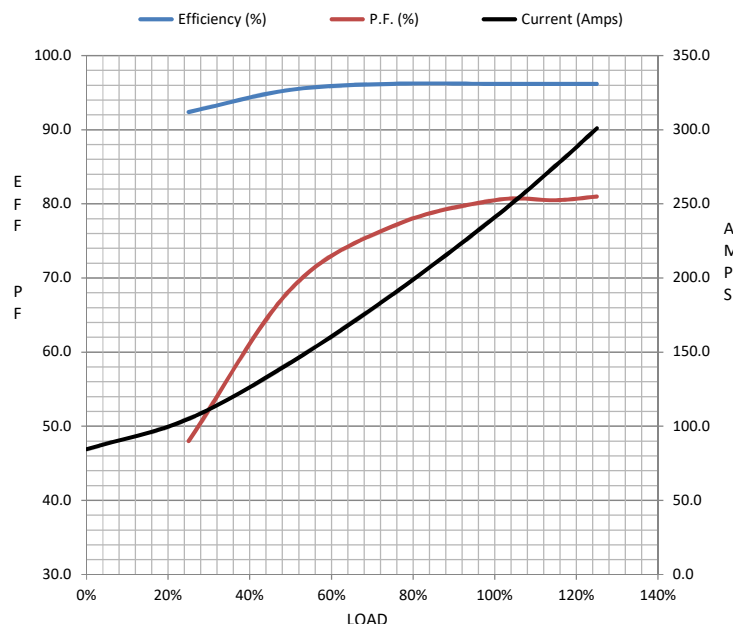
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	84.5	105	143	189	241	276	301	1,450	
Torque (ft-lb)	0.00	219	439	659	880	1,013	1,102	1,225	
RPM	1200	1198	1197	1196	1193	1,192	1191	0	
Efficiency (%)		92.4	95.4	96.2	96.2	96.2	96.2		
P.F. (%)	4.0	48.0	68.5	77.0	80.5	80.5	81.0	24.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1193	1200
Current (Amps)	1,450	1,000	850	241	84.5
Torque (ft-lb)	1,225	1,100	2,100	880	0.00

Information Block

HP	200.0			
Sync. RPM	1200			
Frame	449			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	T22806011 NONE			
Sound Pressure @ 1M	63 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	16958360			
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

