

PRODUCT INFORMATION PACKET



Model No: 170121.60

Catalog No: 170121.60

Special Voltage Motor, 50 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 326T Frame, TEFC



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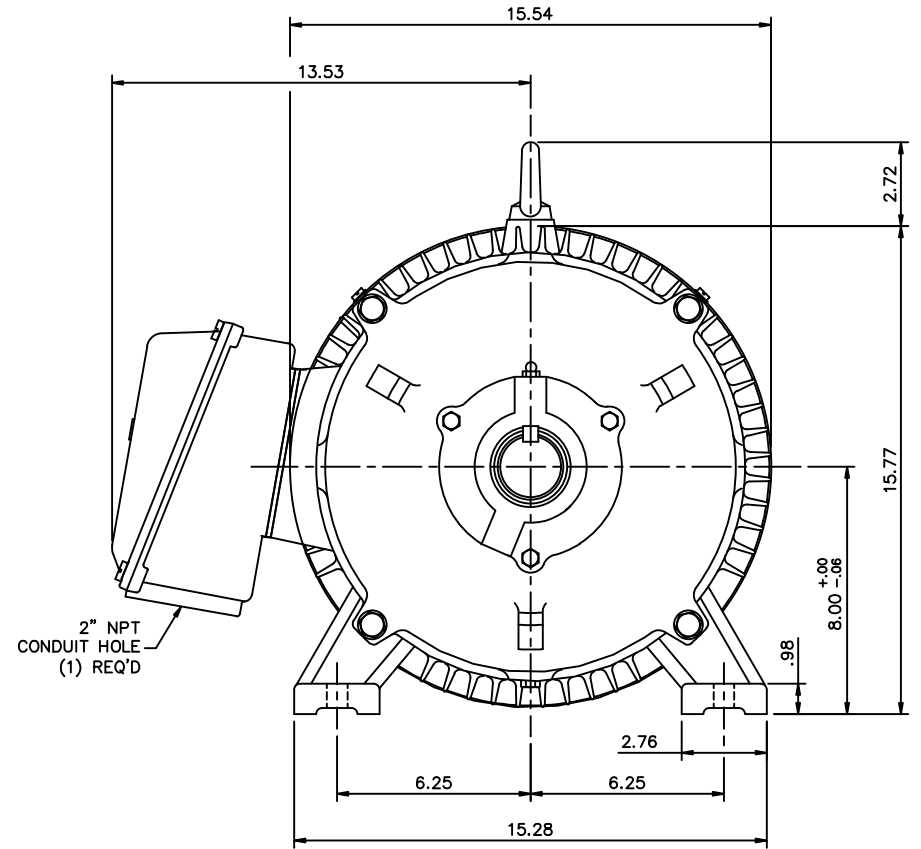
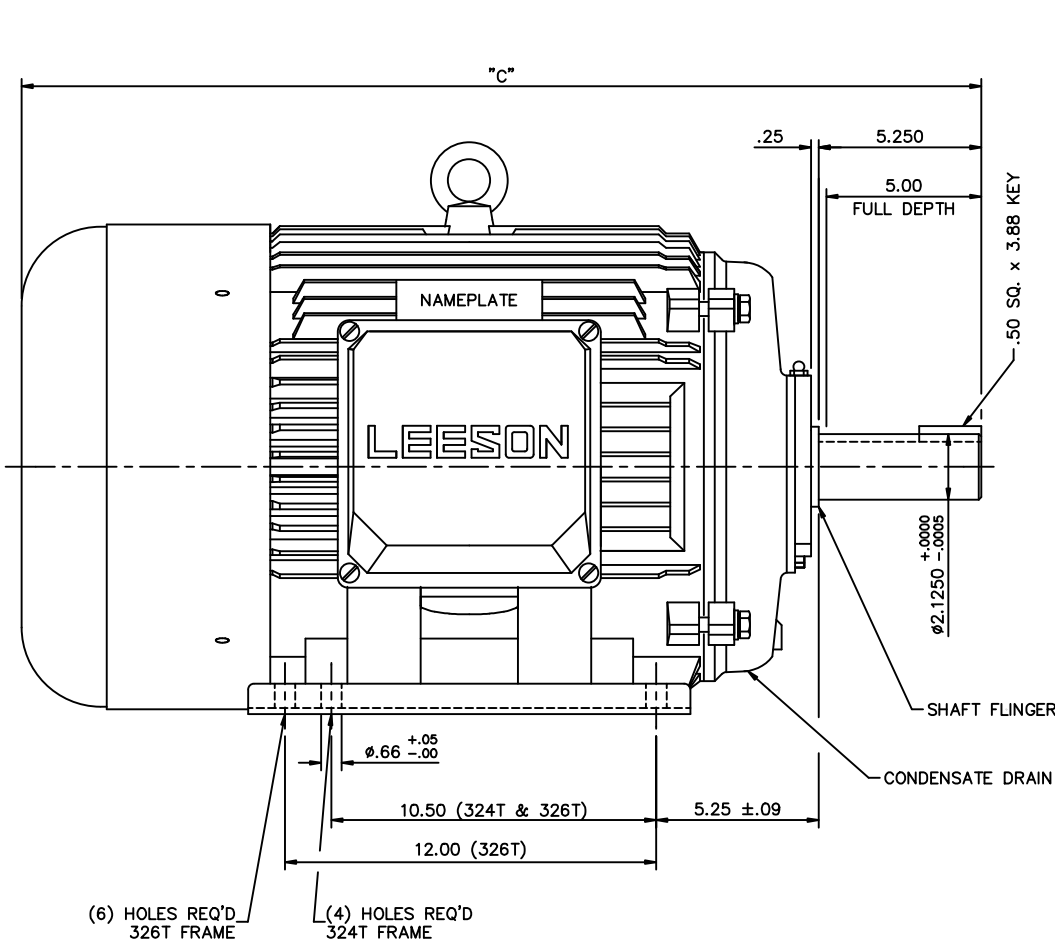


Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	575 V
Current	46.0 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	326T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

Technical Specifications

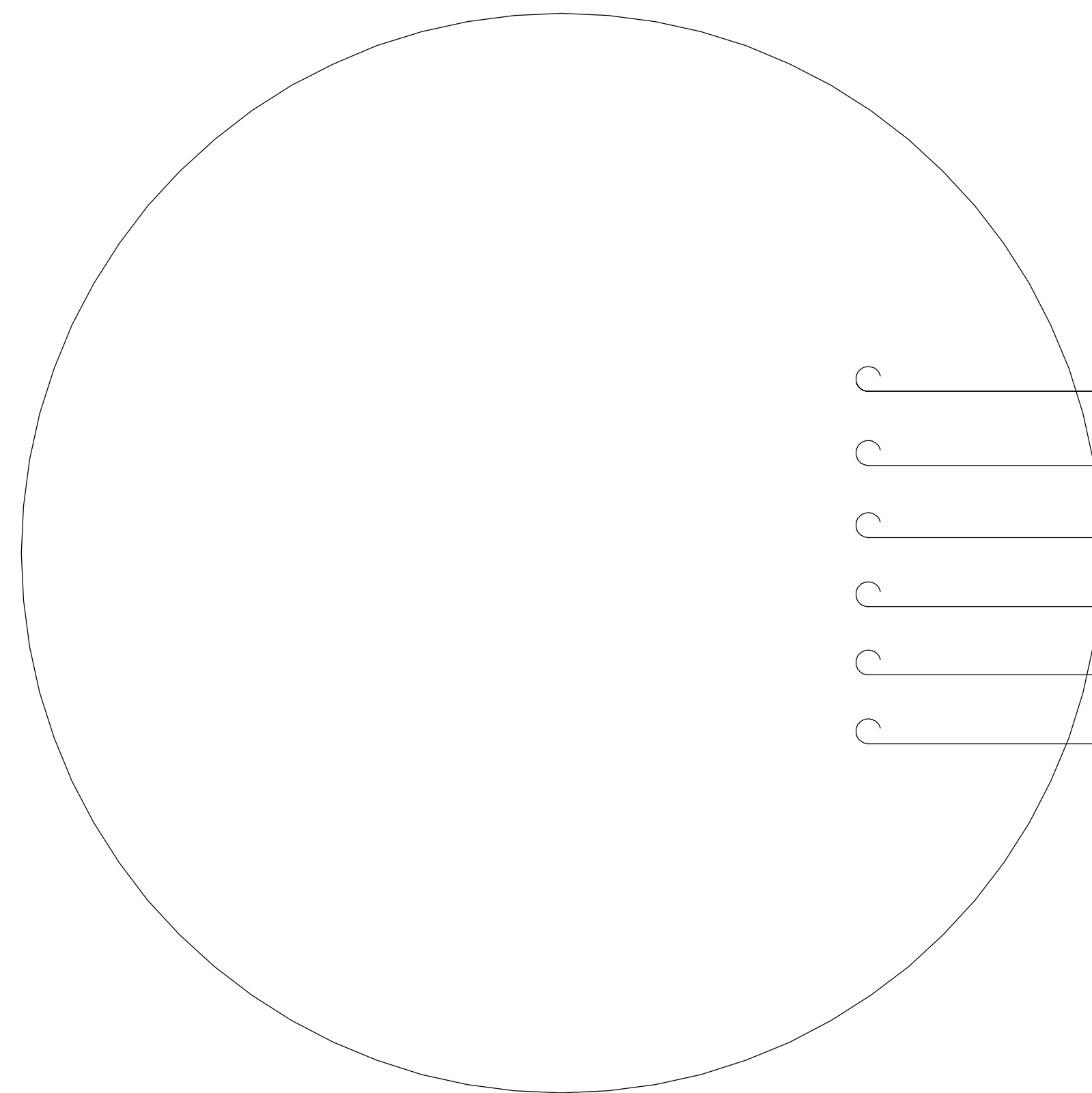
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.207 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	31.02 in
Shaft Diameter	2.125 in	Shaft Extension	5.25 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 10:1
Connection Drawing	005190.01	Outline Drawing	16954160



FRAME DESIGN	"C"
324T	29.53
326T	31.02

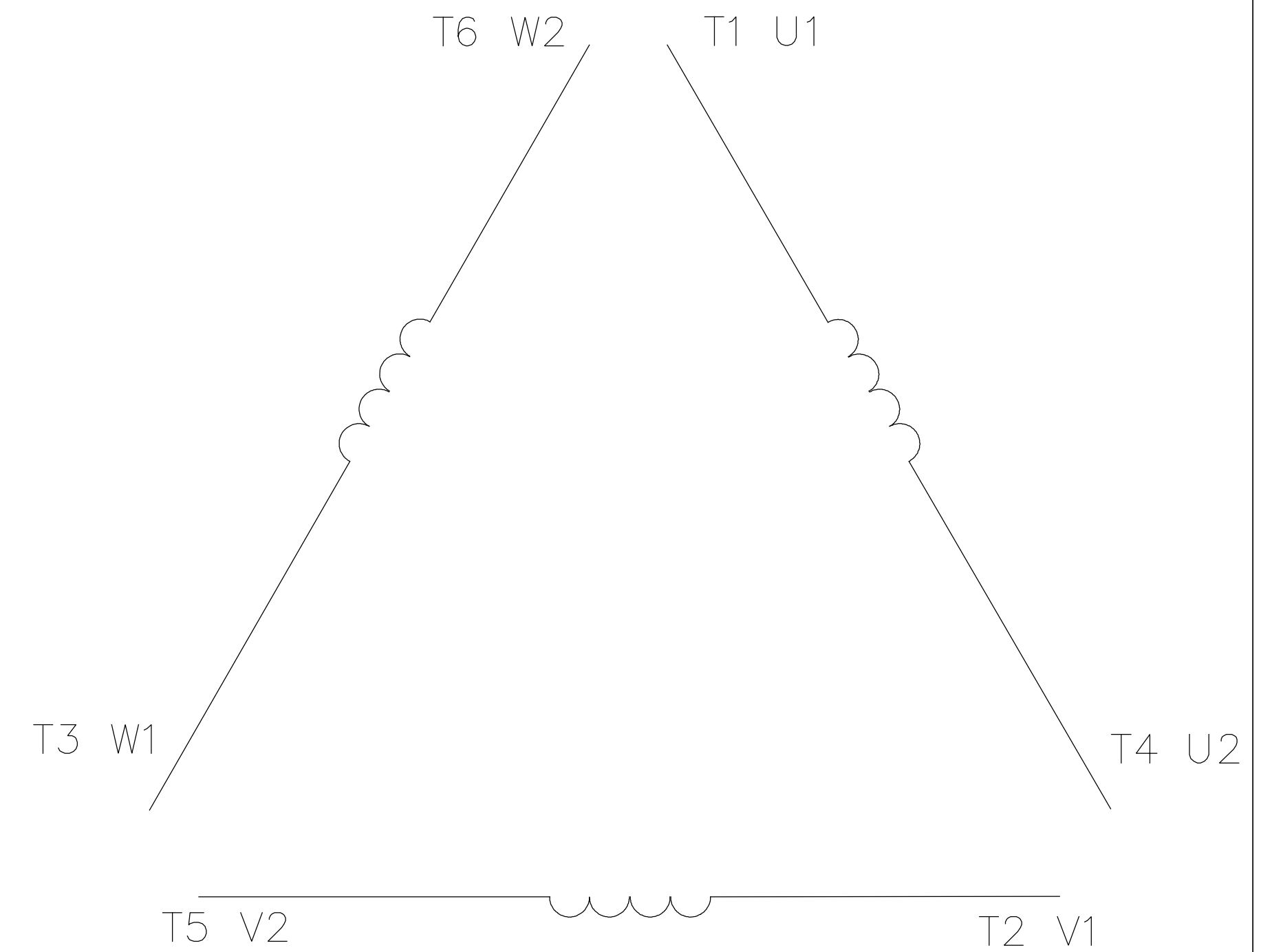
				TOLERANCES UNLESS OTHERWISE SPECIFIED		LEESON ELECTRIC CORPORATION				
				DECIMALS						
				.00	± .06	DRAWN	JJK 03/29/99	TITLE	OUTLINE - 320T FRAME	
				.000	± .005	CH'K'D.		TEFC - RIGID		
01	ADDED HOLES FOR 326T BASE	JJK	07/13/99	.0000	± .0005	APPR.	PG 03/31/99	MAT'L	CAST IRON	
NO.	REVISION	BY	DATE	FRACTIONS ± 1/64		SCALE	1=4			
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.	169504	FINISH	SIZE	DRAWING NO.
				INCH/MM		FMF		B	169541-60	

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		LEESON 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 A	DRAWING NO. 005190-01
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		
				INCH/MM					



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005190.01
OUTLINE: 16954160
WINDING #: T16104006 FR 4 A

CATALOG #: 170121.60
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37.0	1800	1780	326T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	575	46	Y START D RUN OR INV	CONTINUOUS	F5	1.15	40

FULL LOAD EFF:	94.1	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.6	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	86.5	3/4 LOAD PF:	84.5	1/2 LOAD PF:	76.6	92.4		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
0 LB-FT	296	303.4 LB-FT 205 %	444 LB-FT 300 %	110

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	7.39 LB-FT^2	- LB-FT^2	15 SEC.	2	580 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
6312	6312						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: CONSTANT 10:1
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 NONE Hz