

# PRODUCT INFORMATION PACKET



Model No: 171783.60

Catalog No: 171783.60

Severe Duty Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM, 326T Frame,  
TEFC



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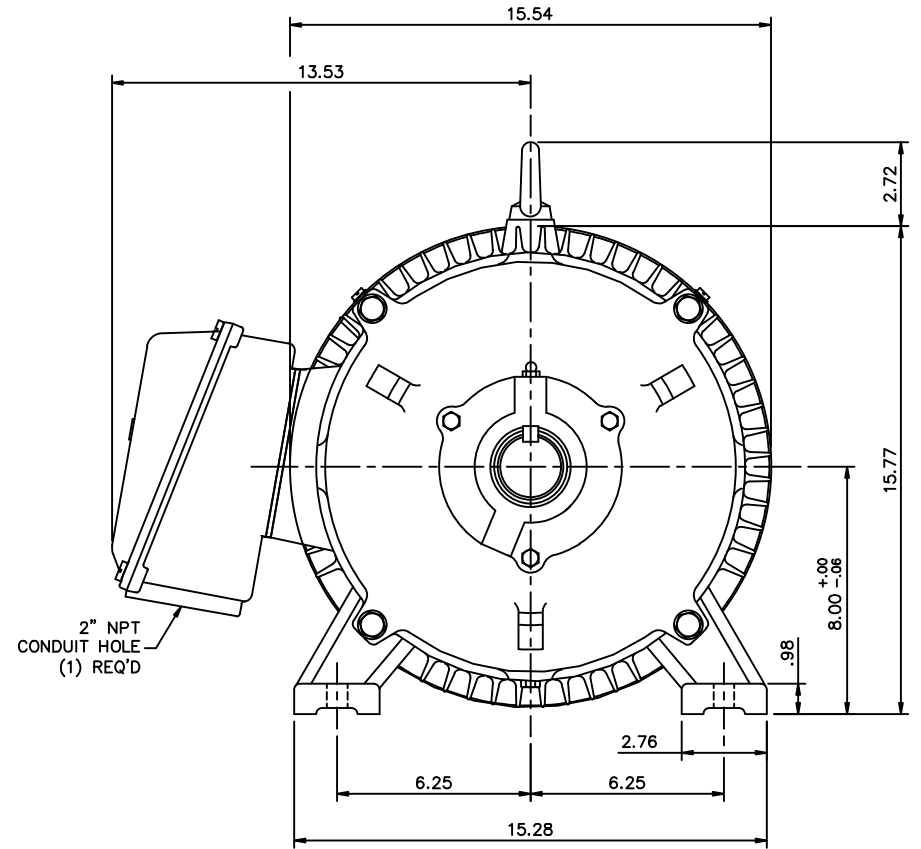
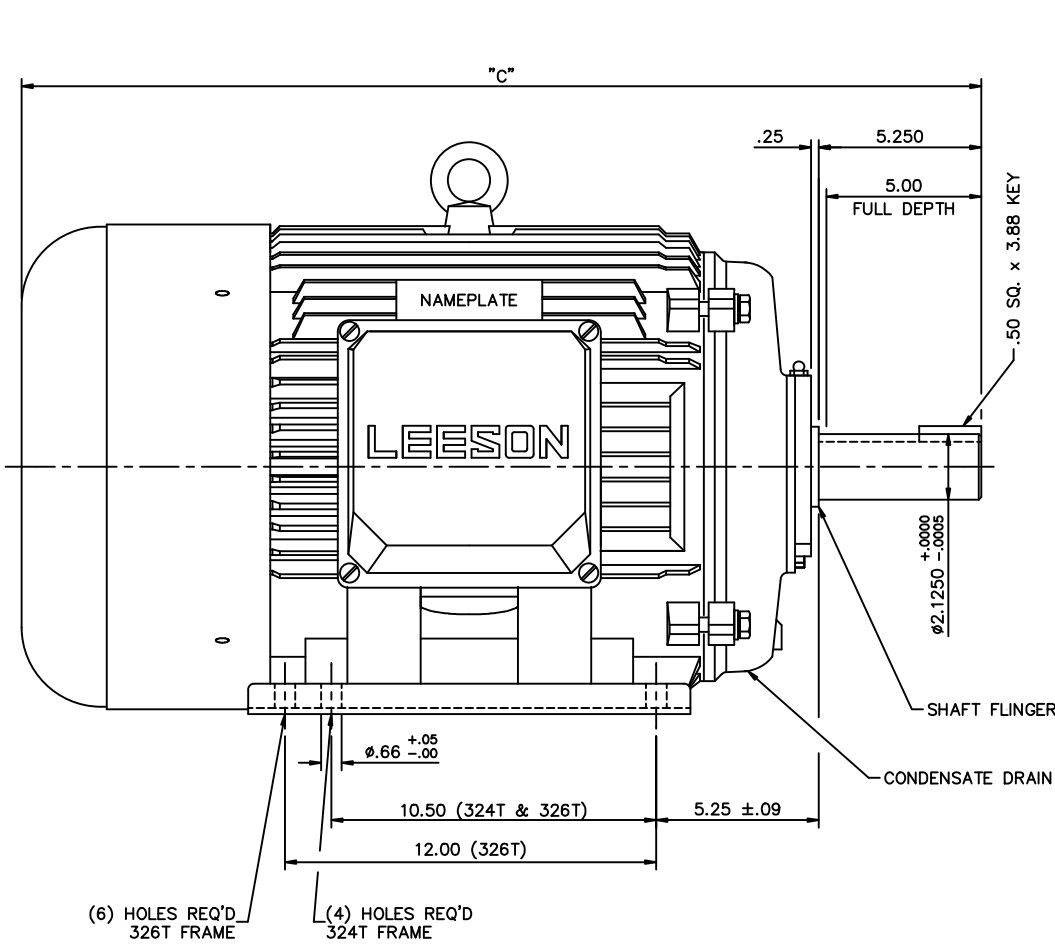


### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>30 &amp; 25 Hp</b>
Output KW	<b>22.4 &amp; 18.7 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>1190 &amp; 990 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>326T</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>93.6 &amp; 92.4 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>77/38.5 &amp; 74/37 A</b>	Power Factor	<b>78</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>F</b>
Drive End Bearing Size	<b>6312</b>	Opp Drive End Bearing Size	<b>6312</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>55</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Wye Start Delta Run Or Inverter</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.197 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Overall Length	<b>31.02 in</b>
Shaft Diameter	<b>2.125 in</b>	Shaft Extension	<b>5.25 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>	Inverter Load	<b>VARIABLE 10:1</b>
Connection Drawing	<b>00417203</b>	Outline Drawing	<b>16954160</b>

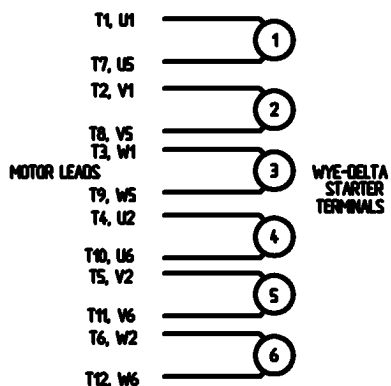


FRAME DESIGN	"C"
324T	29.53
326T	31.02

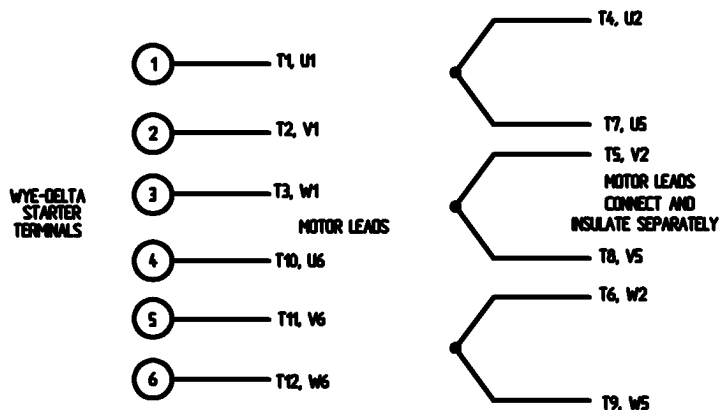
				TOLERANCES UNLESS OTHERWISE SPECIFIED		<b>LEESON</b> ELECTRIC CORPORATION				
				DECIMALS						
				.00	± .06	DRAWN	JJK 03/29/99	TITLE	OUTLINE - 320T FRAME	
				.000	± .005	CH'K'D.		TEFC - RIGID		
01	ADDED HOLES FOR 326T BASE	JJK	07/13/99	.0000	± .0005	APPR.	PG 03/31/99	MAT'L	CAST IRON	
NO.	REVISION	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

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

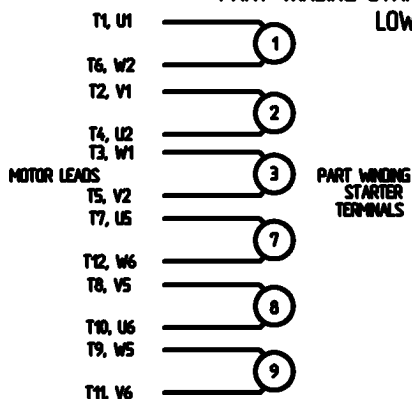


HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

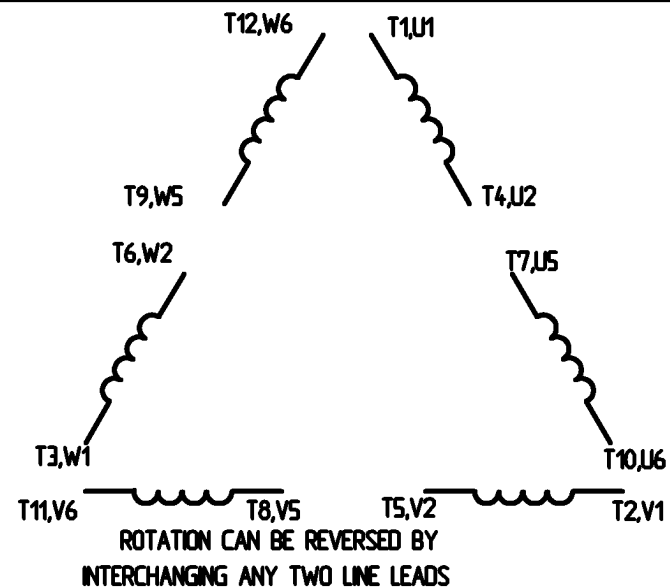
PART WINDING START USABLE ON 4 & 6 POLE MOTORS  
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

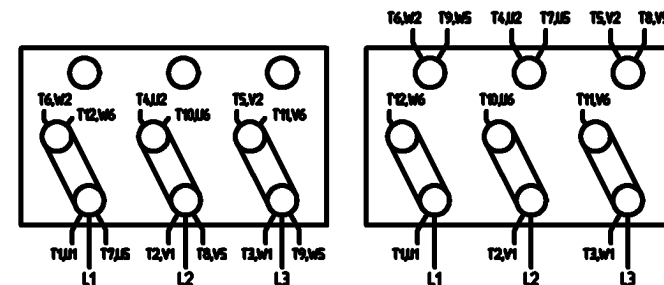
LINE LEADS



12 LEAD DELTA CONNECTION ACROSS THE LINE START  
(FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE  
MUST BE REWIRED  
AS SHOWN

HIGH VOLTAGE  
FACTORY WIRED FOR HIGH  
VOLTAGE AS SHOWN



				TOLERANCES UNLESS SPECIFIED		<b>ELECTRIC MOTORS GEARMOTORS AND DRIVES</b>	DRAWN <b>CW 08/28/02</b> CHK APPD SCALE <b>1:1</b> REF FMF PREV
				DEC.	INCHES		TITLE <b>DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS</b>
				X	+ 1		
				XX	+ .01		
				XXX	+ .005		
				XXXX	+ .0005	MAT'L	
NO.	REVISION	BY & DATE	CHK	ANG	+ 1/2°	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	00417203	SIZE <b>A</b>
				DST			DRAWING NO. <b>004172-03</b>
							REV.

ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--

STACK:

/CB  
-dictionary-  
/Pscript\_WinNT\_Compat  
-dictionary-



**CERTIFICATION DATA SHEET**

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

CATALOG #: 171783.60

CONN. DIAGRAM: 00417203

OUTLINE: 16954160

MOUNTING: F1/F2 CAPABLE

WINDING #: T16106012 FR 3

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	1200	1190&990	326T	TEFC	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	77/38.5&74/37	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	93.6&92.4	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93.6	GTD. EFF	92.4	ELEC. TYPE	SQ CAGE INV RATED
FULL LOAD PF:	78&82.2	3/4 LOAD PF:	74.5	1/2 LOAD PF:	66				

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B,D. TORQUE	F.L. RISE°C
133 LB-FT	402 / 201	213 LB-FT 161 %	290 LB-FT 220 %	57

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	- LB-FT^2	- LB-FT^2	15 SEC.	2	536 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	NONE	FALSE	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
6312	6312						

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: 2/1/2018

171783.60



Data @ 460 V

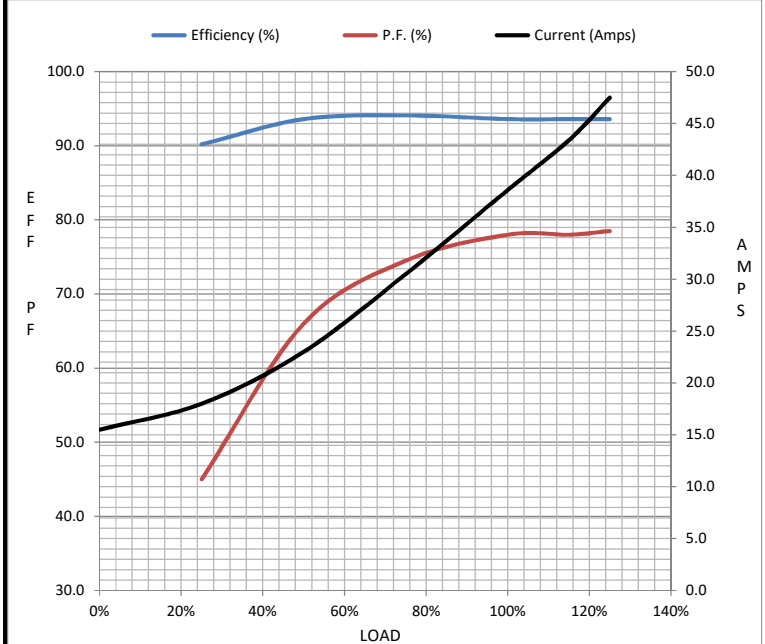
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	15.5	18.0	23.0	30.5	38.6	43.4	47.5	201
Torque (ft-lb)	0.00	33.0	67.0	100	133	153	166	213
RPM	1200	1197	1195	1192	1190	1,188	1185	0
Efficiency (%)		90.2	93.6	94.1	93.6	93.6	93.6	
P.F. (%)	4.5	45.0	66.0	74.5	78.0	78.0	78.5	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	300	1140	1190	1200
Current (Amps)	201	190	130	38.6	15.5
Torque (ft-lb)	213	180	290	133	0.00

Information Block				
HP	30.0			
Sync. RPM	1200			
Frame	326			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	57 °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	T16106012 FR			
Sound Pressure @ 1M	72 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	16954160			
Conn. Diag	00417203			
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

