

# PRODUCT INFORMATION PACKET



Model No: 171790.60  
Catalog No: 171790.60  
Severe Duty Motor, 60 & 50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 3600 & 3000 RPM,  
364TS Frame, TEFC



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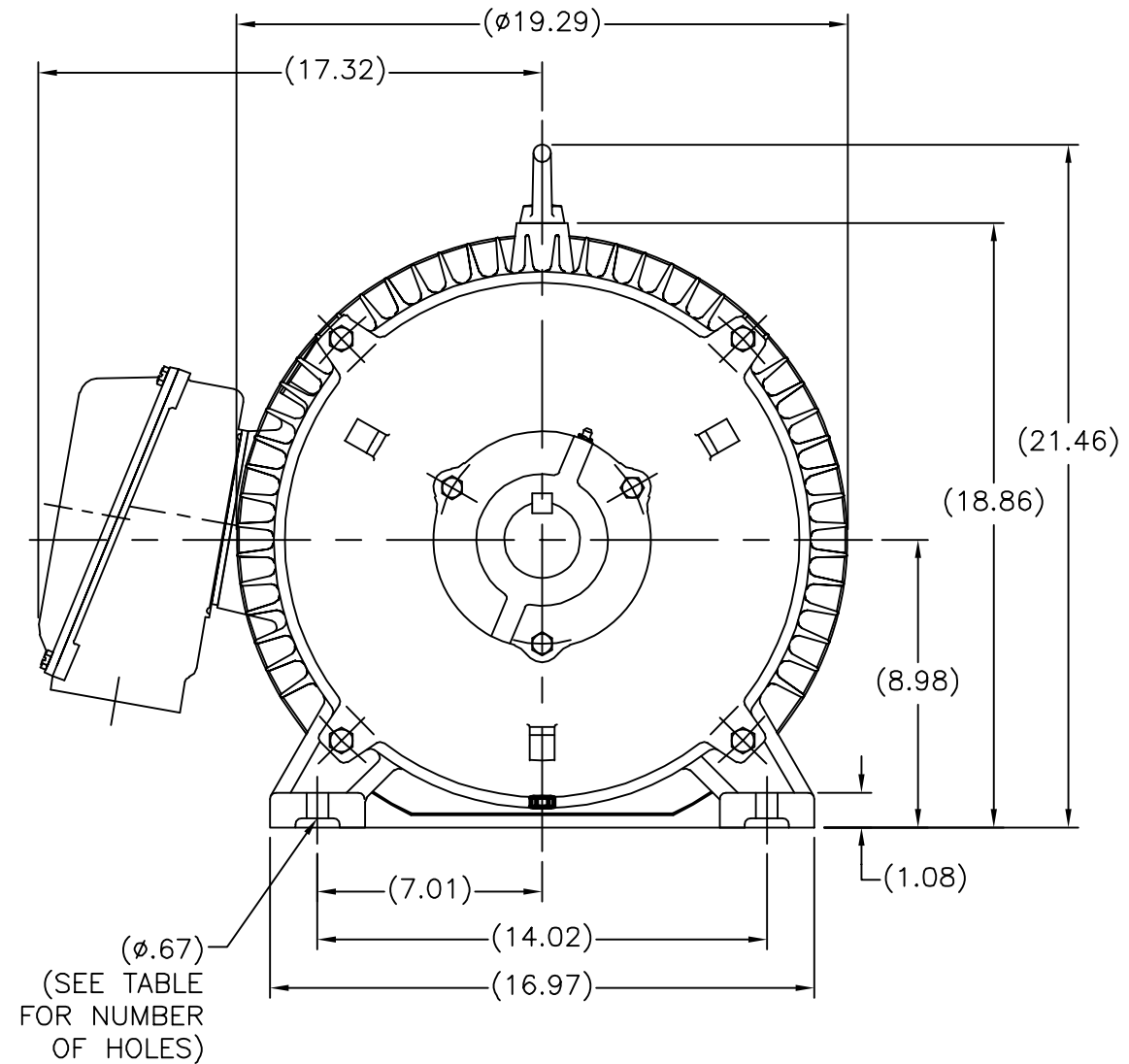
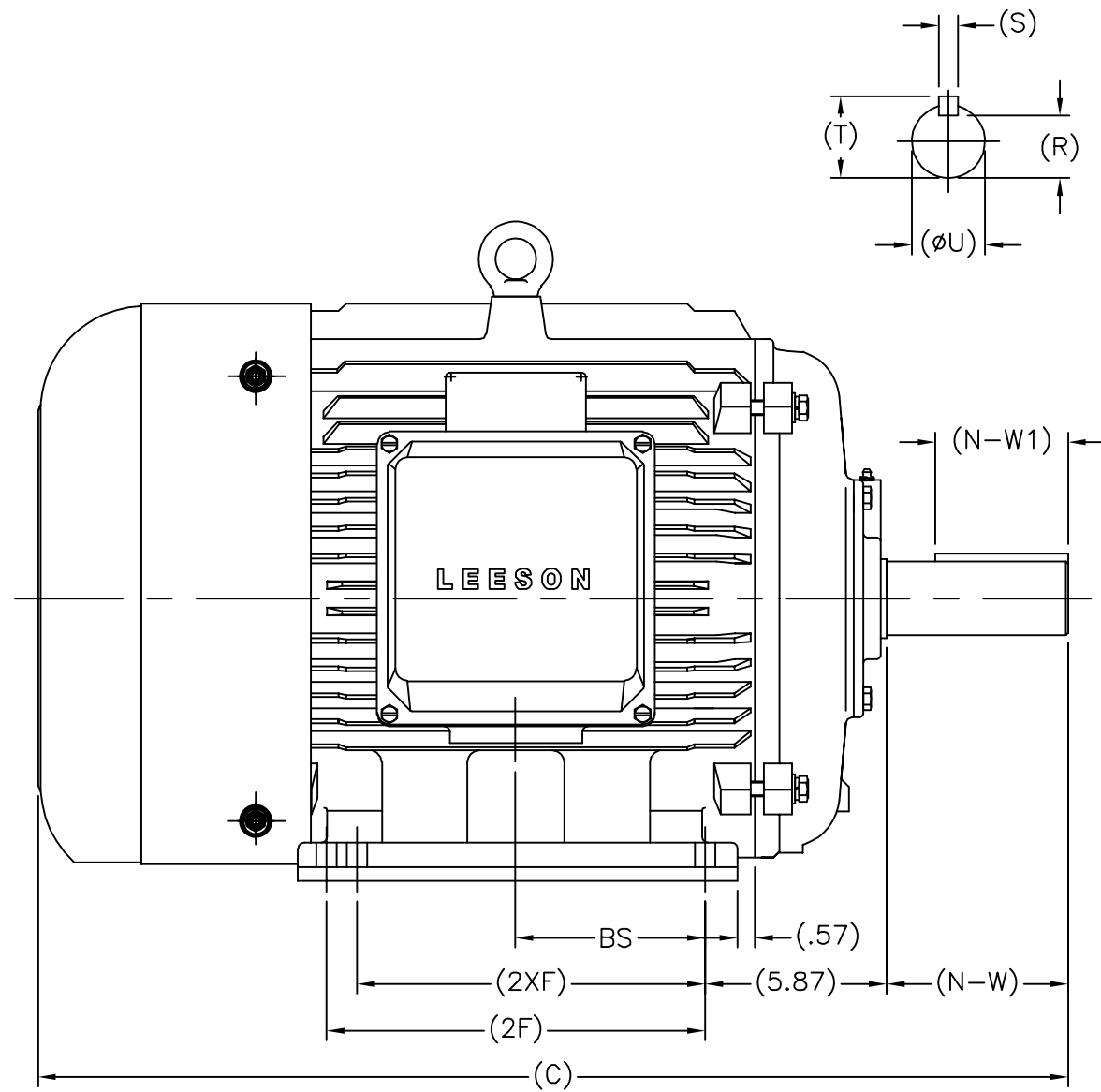
### Nameplate Specifications

Phase	3	Output HP	60 & 50 Hp
Output KW	45.0 & 37.0 kW	Voltage	208-230/460 & 190/380 V
Speed	3570 & 2968 rpm	Service Factor	1.15 & 1.15
Frame	364TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	150-134/67 & 135/67.5 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
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	.0732 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	30.20 in
Shaft Diameter	1.875 in	Shaft Extension	3.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	00417203	Outline Drawing	SS622180LE

SS622180LE

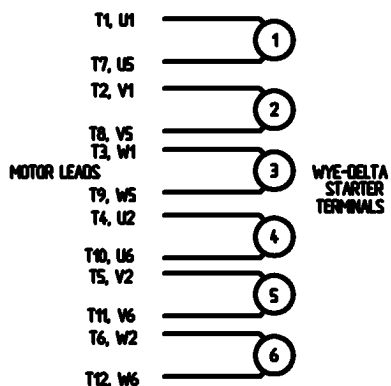


FRAME	C	2F	2XF	HOLES	N-W	N-W1	øU	R	S	T	BS
NT364TS-2	30.20	11.26	---	4	3.74	2.05	1.87	1.59	0.50	2.09	---
NT365TS-2	31.18	12.24	11.26	6	3.74	2.05	1.87	1.59	0.50	2.09	---
NT364T-4, 6	32.32	11.26	---	4	5.87	4.29	2.37	2.01	0.63	2.64	5.60
NT365T-4, 6	33.31	12.24	11.26	6	5.87	4.29	2.37	2.01	0.63	2.64	6.10

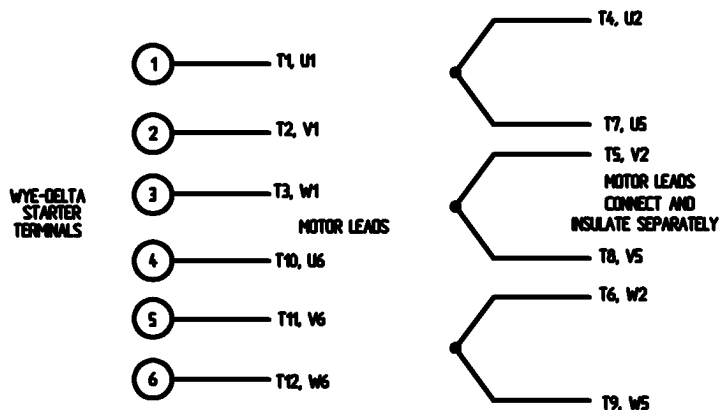
		TOLERANCES UNLESS SPECIFIED		REGAL - BELOIT CORPORATION		DRAWN MSG 02/13/2007	
		DEC.	INCHES			CHK ML 02/16/2007	
		.X	±.1			APPD SB 02/23/2007	
		.XX	±.03	TITLE OUTLINE		SCALE N/A	
		.XXX	±.005	360 FR. - TEFC - (REDESIGNED)		REF	
NO.	1	.XXXX	±.0005	MAT'L.		FMF HEBEI	
REVISION		ANG	±7°30"	FINISH		PREV	
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 SS622180LE		SIZE	DRAWING NO. PAGE 1 OF 1 REV.
		DIST				A	SS622180LE 1

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

LOW VOLTAGE CONNECTION

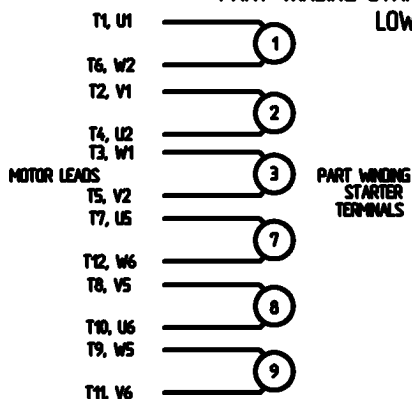


HIGH VOLTAGE CONNECTION



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

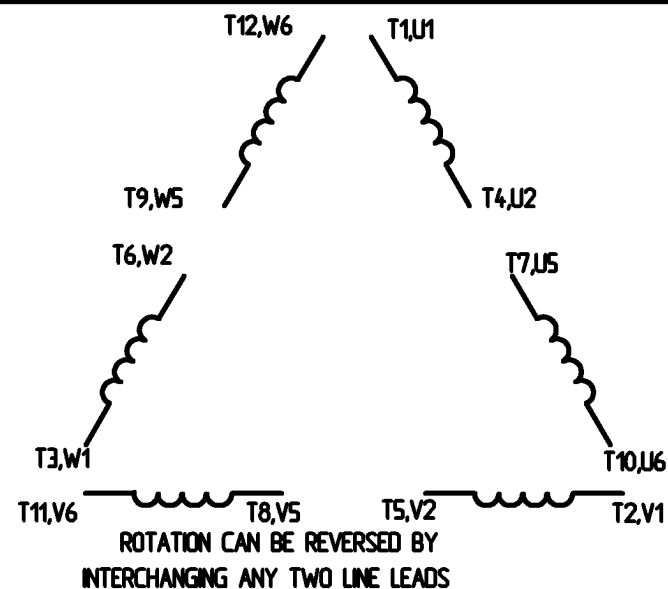
PART WINDING START USABLE ON 4 & 6 POLE MOTORS  
LOW VOLTAGE CONNECTION ONLY



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.

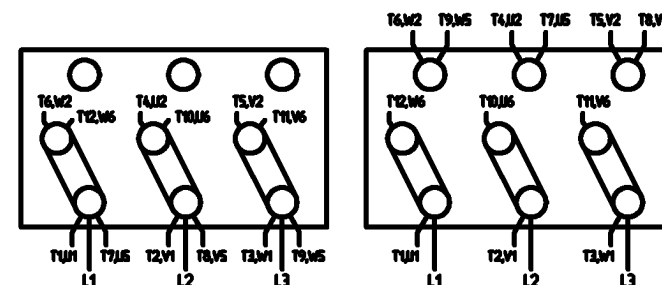
LINE LEADS



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>LEESON</b> ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN C/W 08/28/02
				DEC.	INCHES		CHK
				X	+ .1	TITLE DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS	APPO
				XX	+ .01		SCALE 1:1
				XXX	+ .005	MATERIAL	REF
				XXXX	+ .0005		FMF
NO.	REVISION	BY & DATE	CHK	ANG	+ 1/2°	FINISH	PREV
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				DST			DRAWING NO. 004172-03
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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 #:** 171790.60

**CONN. DIAGRAM:** 00417203

**OUTLINE:** SS622180LE

**WINDING #:** T18302021 3

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60&50	45.0&37.0	3600	3570&2968	364TS	TEFC	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	208-230/460&190/380	150-134/67&135/67.5	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	94.1&94.1	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	93.6	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	88.5&88.5	3/4 LOAD PF:	87.5	1/2 LOAD PF:	83	93		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88 LB-FT	800 / 400	140 LB-FT 159 %	215 LB-FT 244 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	- LB-FT^2	- LB-FT^2	20 SEC.	-	- 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
6313	6313						

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

* N O T E S *	<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: 1/23/2018

171790.60



Data @ **460 V**

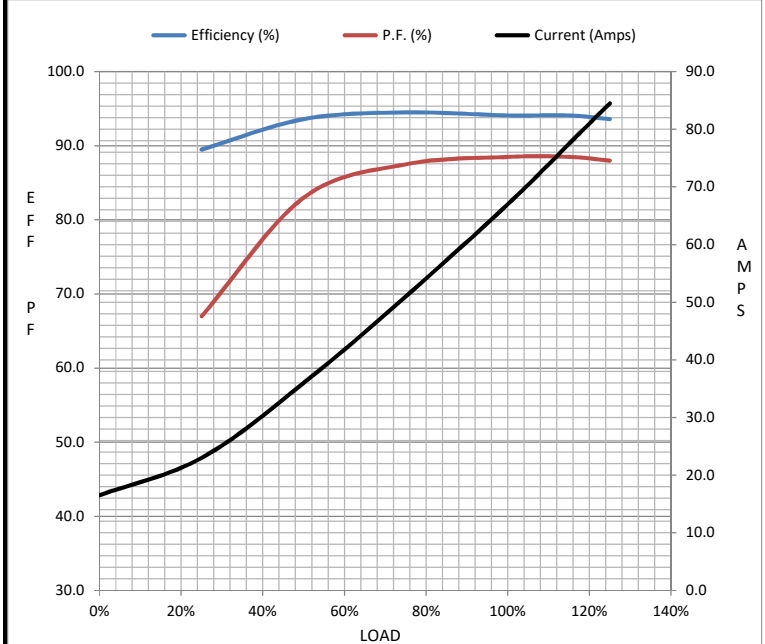
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	16.5	23.0	36.0	51.0	67.0	77.5	84.5	400
Torque (ft-lb)	0.00	22.0	44.0	66.0	88.0	102	111	140
RPM	3600	3595	3588	3580	3570	3,565	3560	0
Efficiency (%)		89.5	93.6	94.5	94.1	94.1	93.6	
P.F. (%)	9.0	67.0	83.0	87.5	88.5	88.5	88.0	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3570	3600
Current (Amps)	400	359	235	67.0	16.5
Torque (ft-lb)	140	105	215	88.0	0.00

Information Block				
HP	60.0			
Sync. RPM	3600			
Frame	364			
Enclosure	TEFC			
Construction	TFC			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	55 °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	T18302021 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS622180LE			
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

