

PRODUCT INFORMATION PACKET



Model No: 171787.60
Catalog No: 171787.60
Severe Duty Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,
326TS Frame, TEFC



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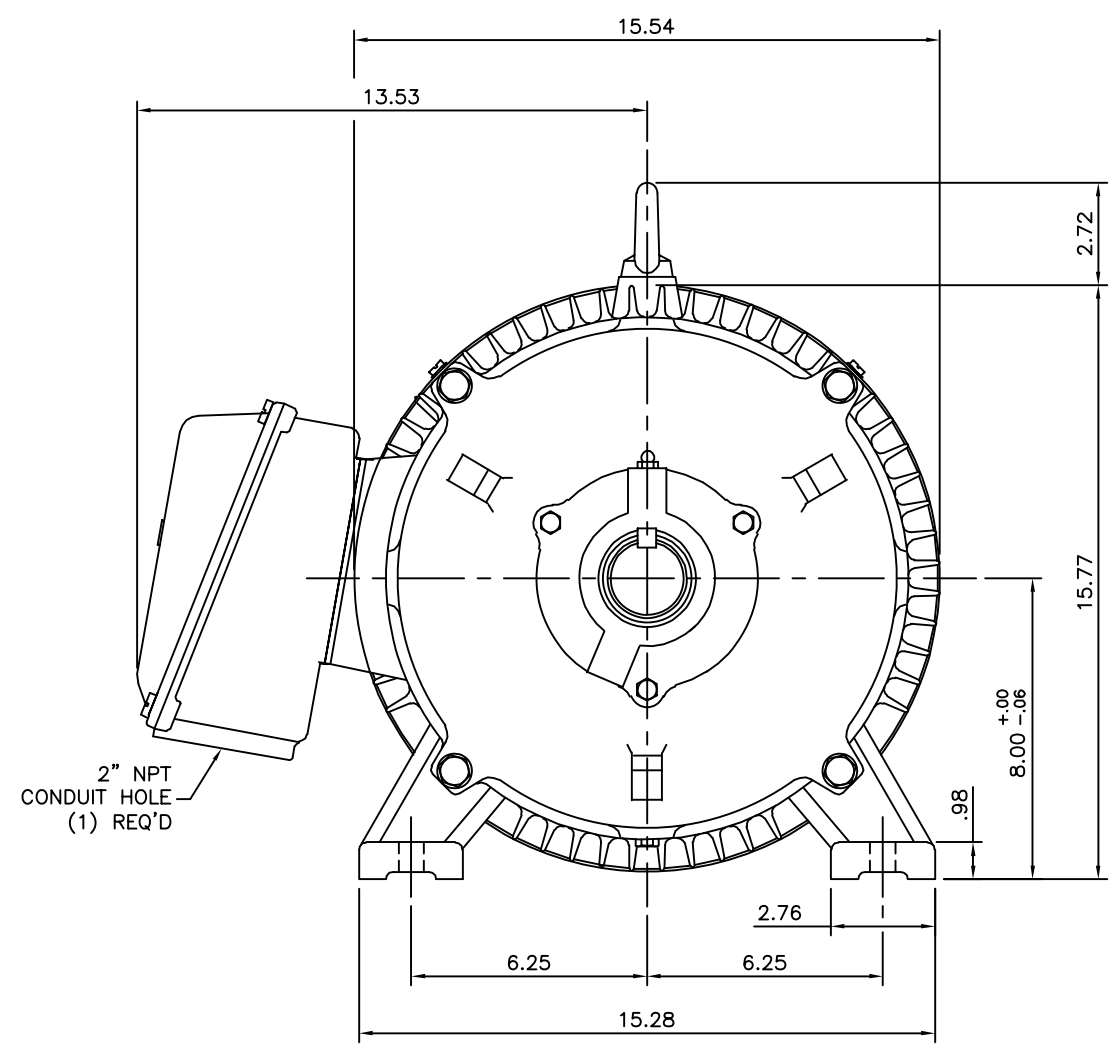
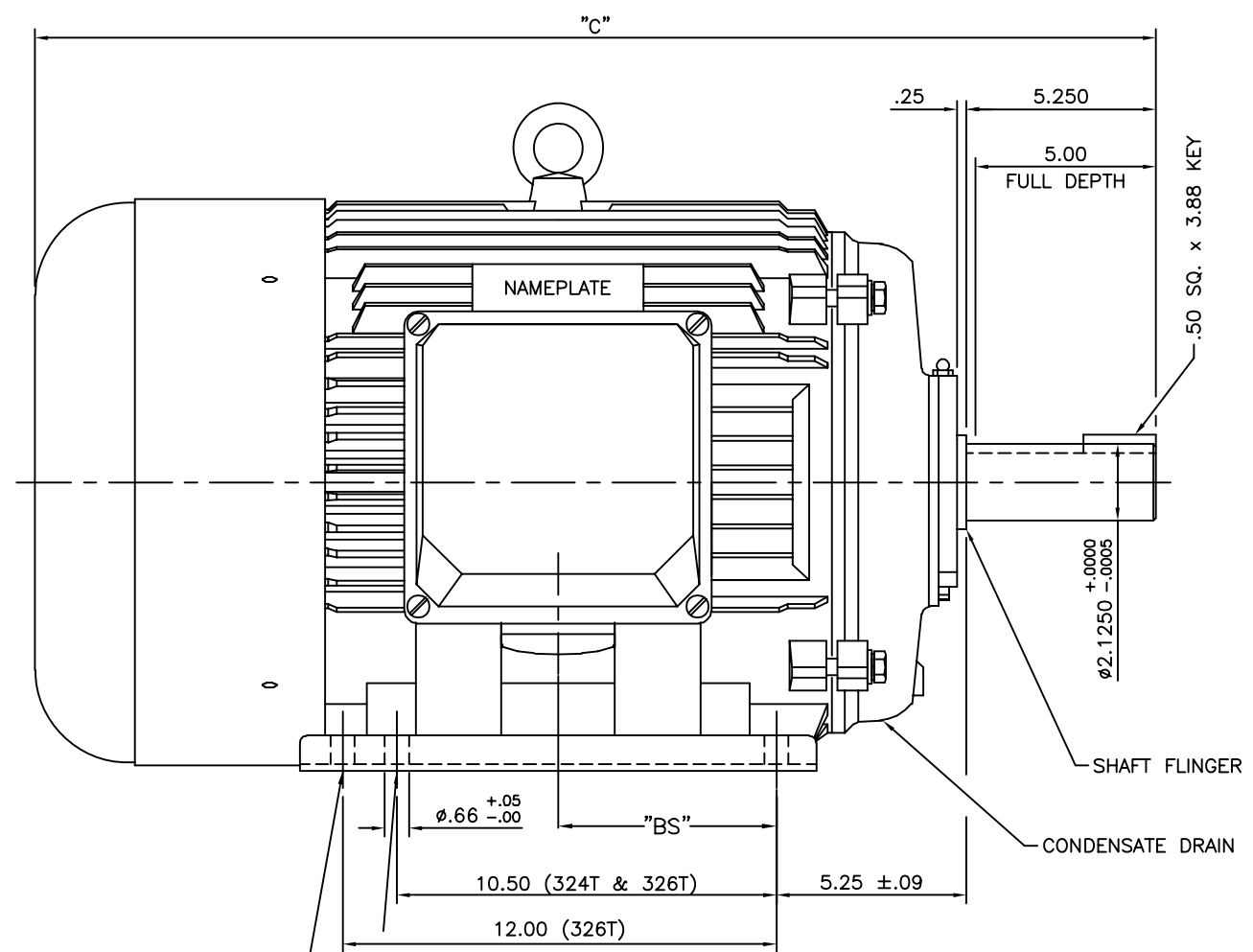
Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	208-230/460 & 190/380 V
Speed	3565 & 2965 rpm	Service Factor	1.15 & 1.15
Frame	326TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.1 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	123-112/56 & 100/50 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
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	4	Rotation	Reversible
Resistance Main	.085 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	31.02 in
Shaft Diameter	1.875 in	Shaft Extension	3.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	16954160LE	Connection Drawing	00417203

169541-60LE



(6) HOLES REQ'D
326T FRAME

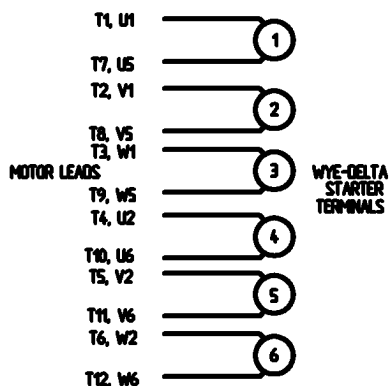
(4) HOLES REQ'D
324T FRAME

FRAME DESIGN	"C"	"BS"
324T	29.53	5.30
326T	31.02	6.00

		TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT CORPORATION		DRAWN JJK 03/29/99	
		DEC.	INCHES			CHK	
		.X	±.1			APPD PG 03/31/99	
		.XX	±.03	TITLE OUTLINE - 320T FRAME TEFC - RIDIG		SCALE N/A	
		.XXX	±.005			REF 169504	
1	ADDED "BS" DIM. AND UPDATED TITLE BLOCK ECO-00	RFH 04/07/2014	EH	.XXXX	±.0005	MAT'L. CAST IRON	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	FINISH	
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				DIST	DRAWING NO. 169541-60LE		PAGE 1 OF 1
							REV. 1

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

LOW VOLTAGE CONNECTION

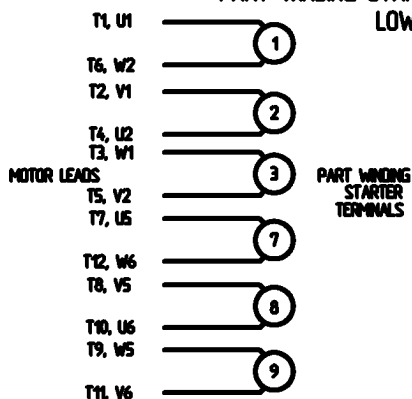


HIGH VOLTAGE CONNECTION



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

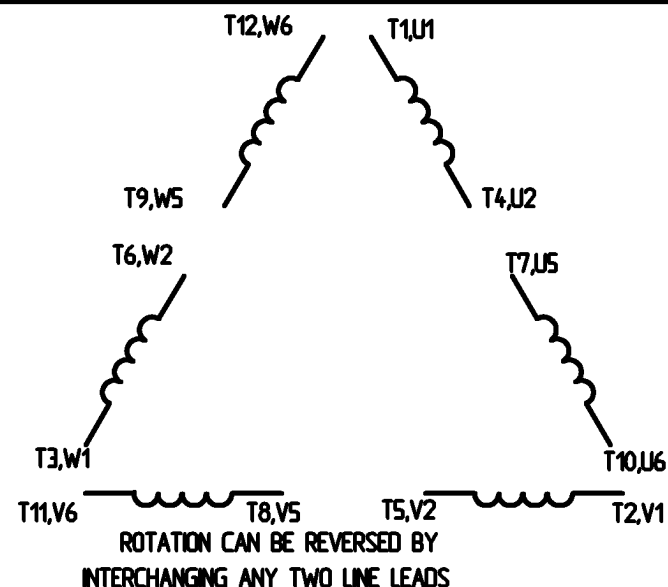
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



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.

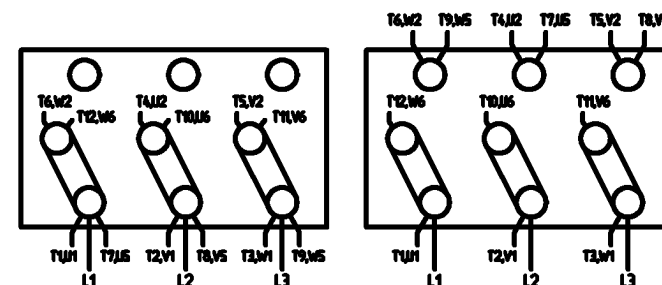
LINE LEADS



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

ERROR: syntaxerror
OFFENDING COMMAND: --nostringval--

STACK:

/CB
-dictionary-
/Pscript_WinNT_Compat
-dictionary-



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 GRAFTON, WI 53024
 PH. 262-377-8810

CERTIFICATION DATA SHEET

CATALOG #: 171787.60

CONN. DIAGRAM: 00417203

OUTLINE: 16954160LE

MOUNTING: F1/F2 CAPABLE

WINDING #: T16102017 2

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37.0&30.0	3600	3565&2965	326TS	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	208-230/460&190/380	123-112/56&100/50	Y START D RUN OR INV	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	94.1&94.5	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.1	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	88.5&89.1	3/4 LOAD PF:	87.5	1/2 LOAD PF:	83.5	93		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
73.7 LB-FT	718 / 359	124 LB-FT 168 %	186.5 LB-FT 253 %	58

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	15 SEC.	2	600 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
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

INVERTER TORQUE: VARIABLE 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

Data Sheet

Date: 1/17/2018

171787.60



Data @ 460 V

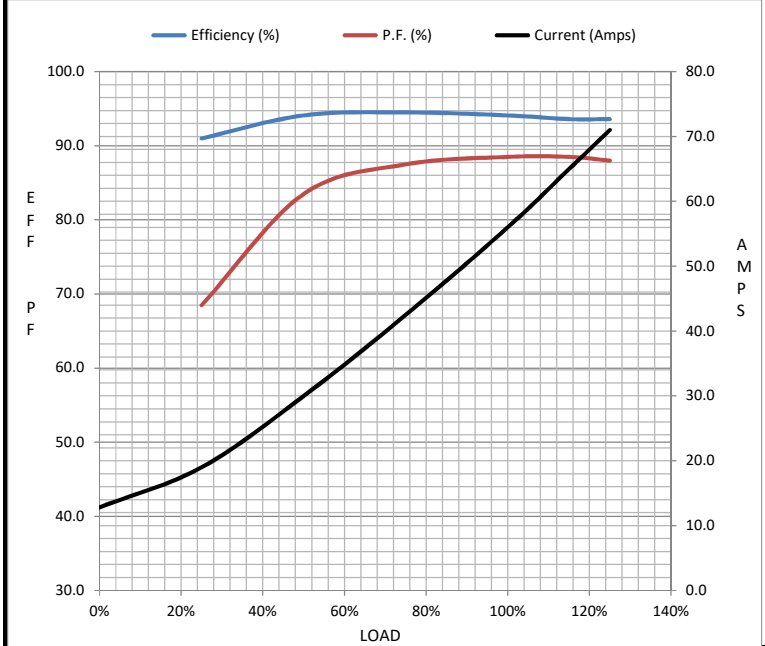
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	12.8	19.0	30.0	42.5	56.0	65.0	71.0	359
Torque (ft-lb)	0.00	18.3	36.6	55.0	73.7	85.0	92.4	124
RPM	3600	3595	3585	3575	3565	3,555	3550	0
Efficiency (%)		91.0	94.1	94.5	94.1	93.6	93.6	
P.F. (%)	8.0	68.5	83.5	87.5	88.5	88.5	88.0	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1755	3355	3565	3600
Current (Amps)	359	328	223	56.0	12.8
Torque (ft-lb)	124	97.5	187	73.7	0.00

Information Block				
HP	50.0			
Sync. RPM	3600			
Frame	326			
Enclosure	TEFC			
Construction	TFC			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	T16102017 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	16954160LE			
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

