

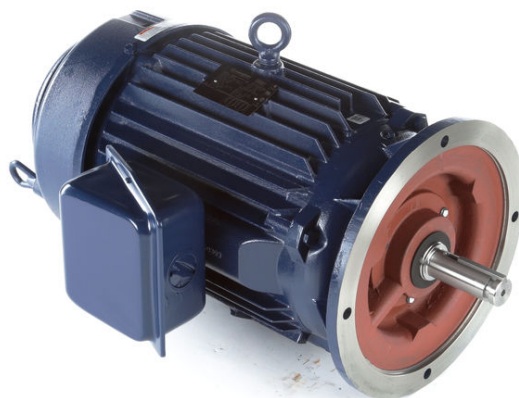
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 404TTFS16086

Catalog No: M914B

60 HP Vertical Solid Shaft P-Base Motor, 3 phase, 1200 RPM, 230/460 V, 404HPV Frame, TEFC
Vertical Pump Motors



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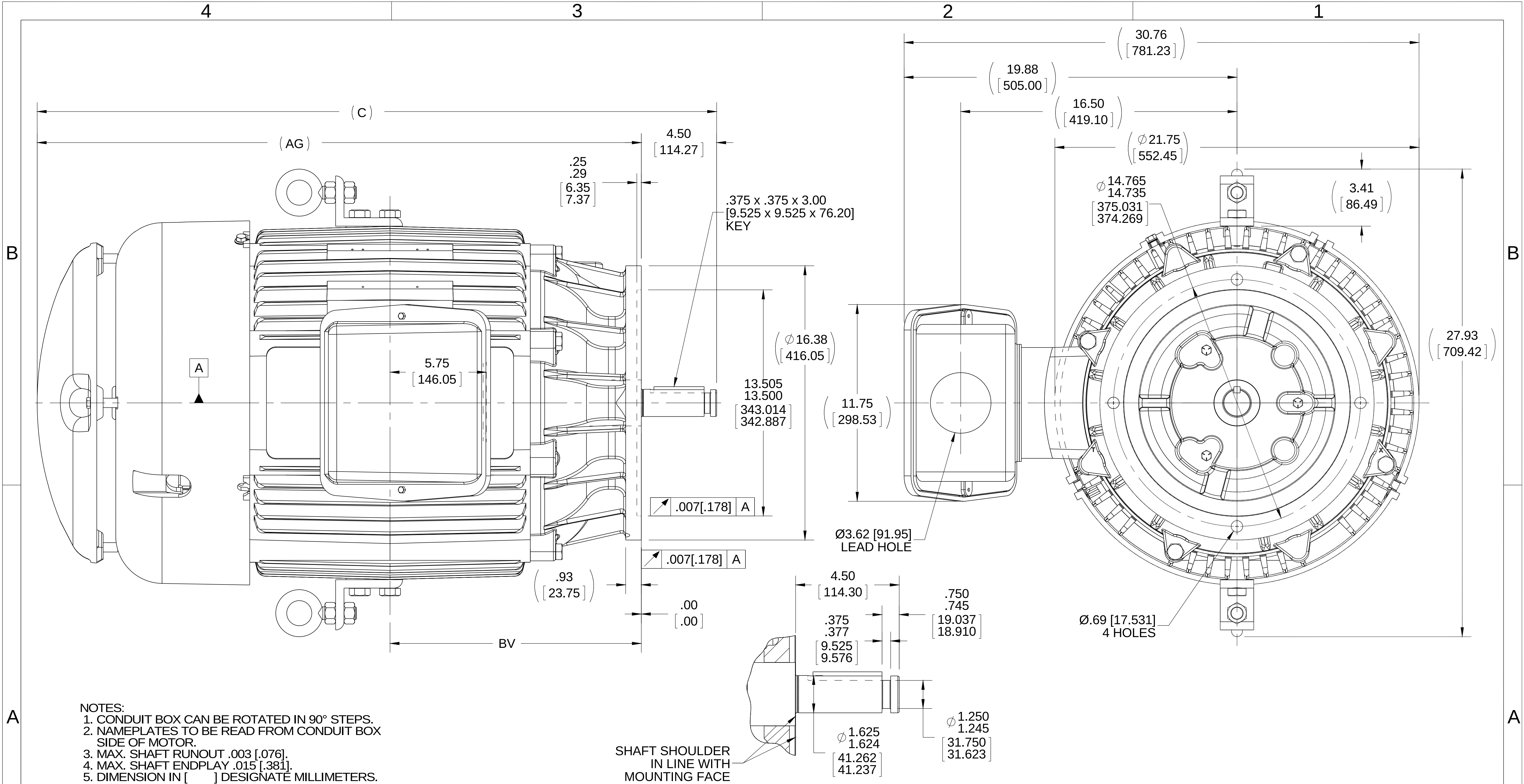
RegalRexnord

Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	144.0/72.0 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	404HPV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.111 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	HP	Overall Length	40.58 in
Frame Length	16.75 in	Shaft Diameter	1.625 in
Shaft Extension	4.50 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS508404-1675	Connection Drawing	A-EE7308K



SHAFT SHOULDER
IN LINE WITH
MOUNTING FACE

DETAIL OF SHAFT EXTENSION

DRAWING REVISION G	REVISION BY JJB	DATE 09-08-2016
ECO ECO-0104950	APPROVED BY JHA	DATE 09-08-2016
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 INCH 5.1 mm			
mm SHOWN IN [BRACKETS]			

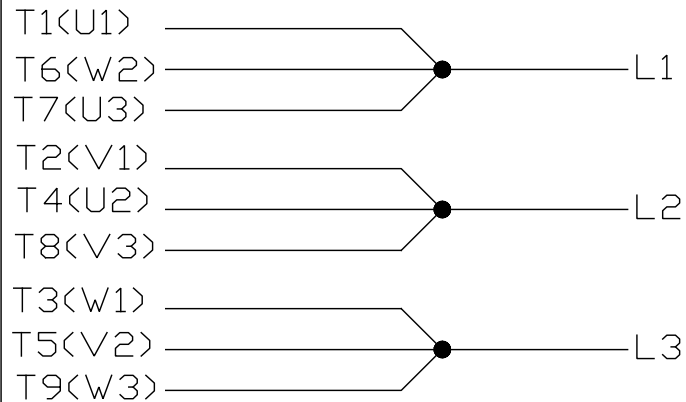
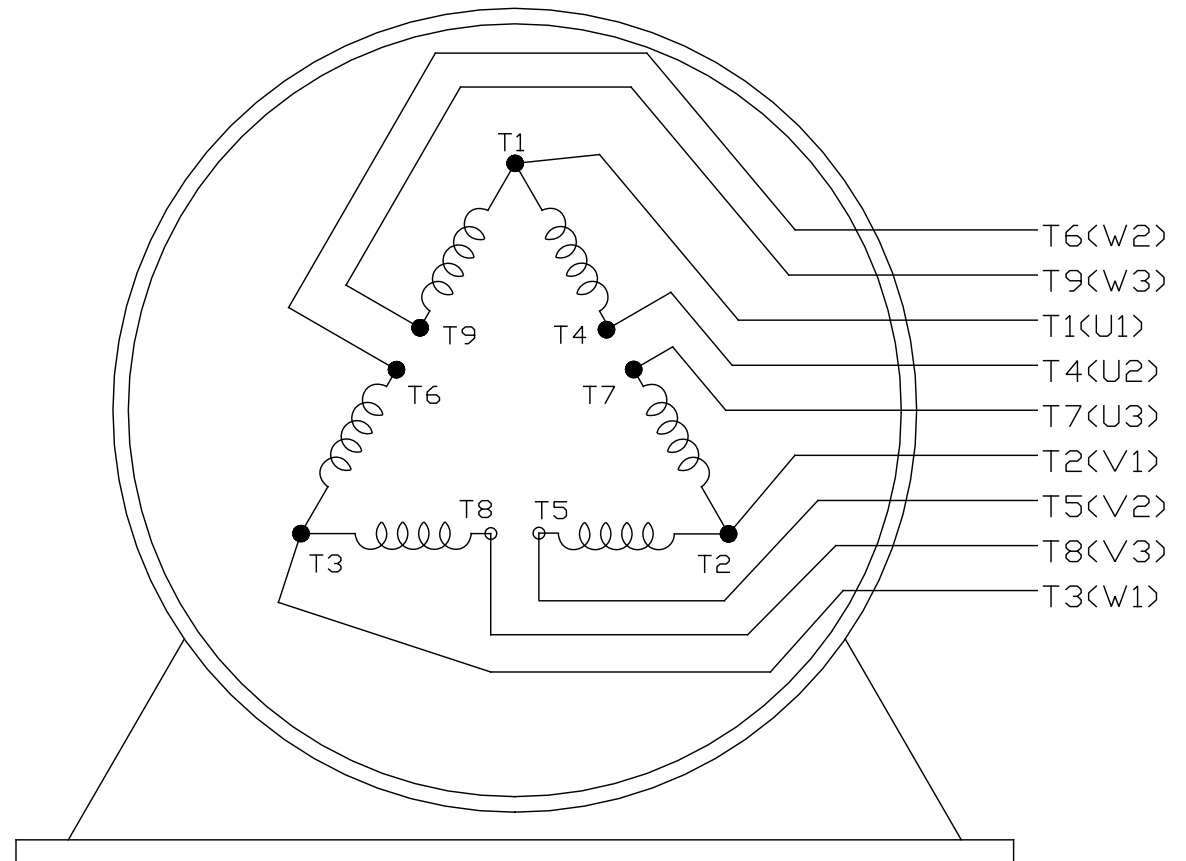
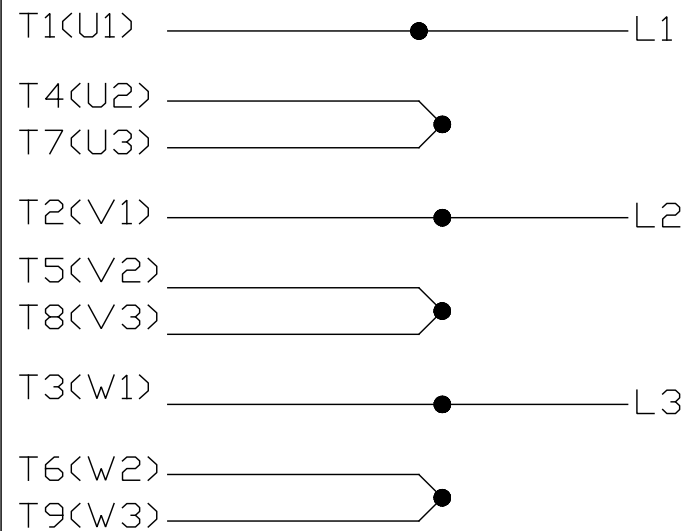
DRAWN BY DD	DATE 04-28-1993
APPROVED BY TB	DATE 04-30-1993
REFERENCE	THIRD ANGLE PROJECTION

DRAWING NUMBER SS508404		SHEET 1 OF 1
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DASH	FRAME	C	AG	BV
1675	400HPV	40.58 [1030.73]	36.08 [916.43]	15.00 [381.00]

LOW VOLTAGE

EE7308K

HIGH VOLTAGE

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997				
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.	INCHES		CHK ML 06-05-1997				
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1		APPD GK 06-15-1997				
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	±.02		TITLE CONNECTION DIAGRAM DELTA CON. - 3Ø - 9 LEADS	SCALE			
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005			REF			
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005	MAT'L.	FMF				
NO.	REVISION	BY & DATE	CHK	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 EE7308K		SIZE	DRAWING NO.	PAGE	OF	REV.
			DIST				A	EE7308K		E	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
ORDER #: _____ REFERENCE MODEL #: 404TTFS16086
CONN. DIAGRAM: A-EE7308K CAT #: M914B
OUTLINE: B-SS508404-1675 CUSTOMER PART #: _____
WINDING: T404640 NONE 1 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	1200	1185	404HPV	TEFC	TFS	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	144/72	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	94.5	3/4 LD EFF	95.0	1/2 LD EFF	95.0	GTD EFF	94.1	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	83.0	3/4 LD PF	78.5	1/2 LD PF	70.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
266 LB-FT	435	535 LB-FT 201%	650 LB-FT 244%	60	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	33.5 LB-FT²	1000 LB-FT²	25 SEC.	2	1125 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	NO	NONE	YES	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	HP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6313						

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
0.071	0.043	0.394	0.527	9.545	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR
PREPARED BY: FAREEDA DUDEKULA DATE: 9/11/2018	BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE UL: V-INS, CONST UL REC	NONE H2:

FORM: 3531 REV_4 2/27/06

Data Sheet

Date: 12/3/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



404TFS16086

Submittal

Data @ 460 V

Motor Load Data

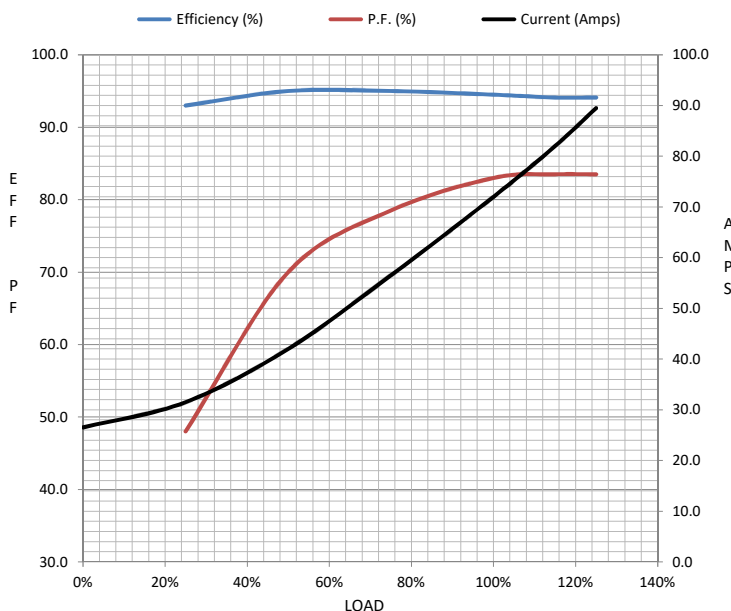
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	26.5	31.5	42.0	56.5	72.0	82.0	89.5	435	
Torque (ft-lb)	0.00	65.5	132	199	266	306	333	535	
RPM	1200	1196	1194	1188	1185	1,182	1180	0	
Efficiency (%)		93.0	95.0	95.0	94.5	94.1	94.1		
P.F. (%)	4.5	48.0	70.0	78.5	83.0	83.5	83.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1050	1185	1200
Current (Amps)	435	390	240	72.0	26.5
Torque (ft-lb)	535	475	650	266	0.00

Information Block

HP	60.0			
Sync. RPM	1200			
Frame	404			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460	V		
Frequency	60	Hz		
Design	B			
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	33.5	Lb-Ft ²		
Ref Wdg	T404640 NONE			
Sound Pressure @ 1M	68	dBA		
VFD Rating	NONE			
Outline Dwg	B-SS508404-1675			
Conn. Diag	A-EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0710	0.0430	0.3940	0.5270	9.5450



Speed -Torque Curve

