

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 404TSTD4332
Catalog No: U528A
100,1800,DP,404TS,3/60/230/460
Fire Pump



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REGAL



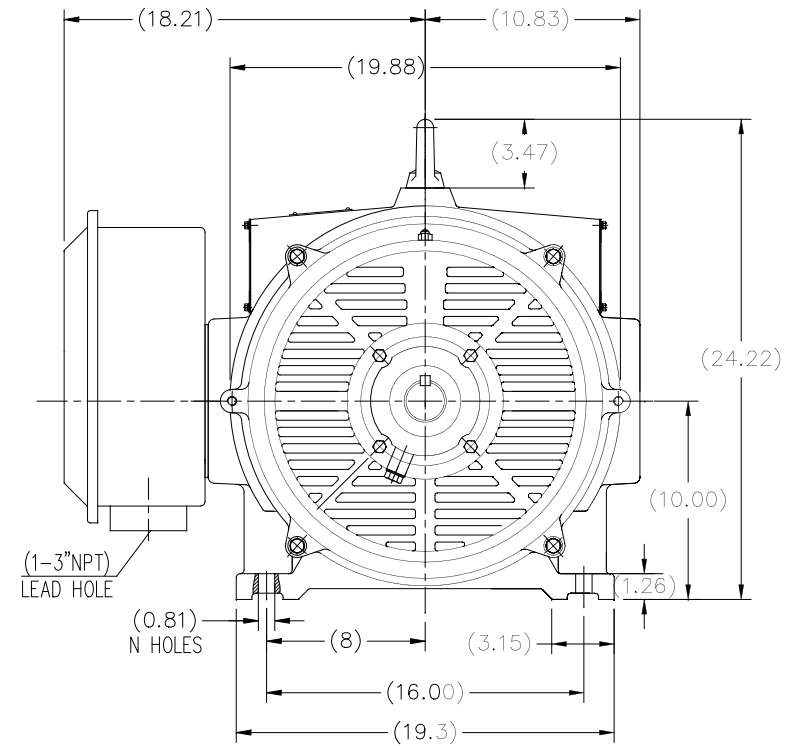
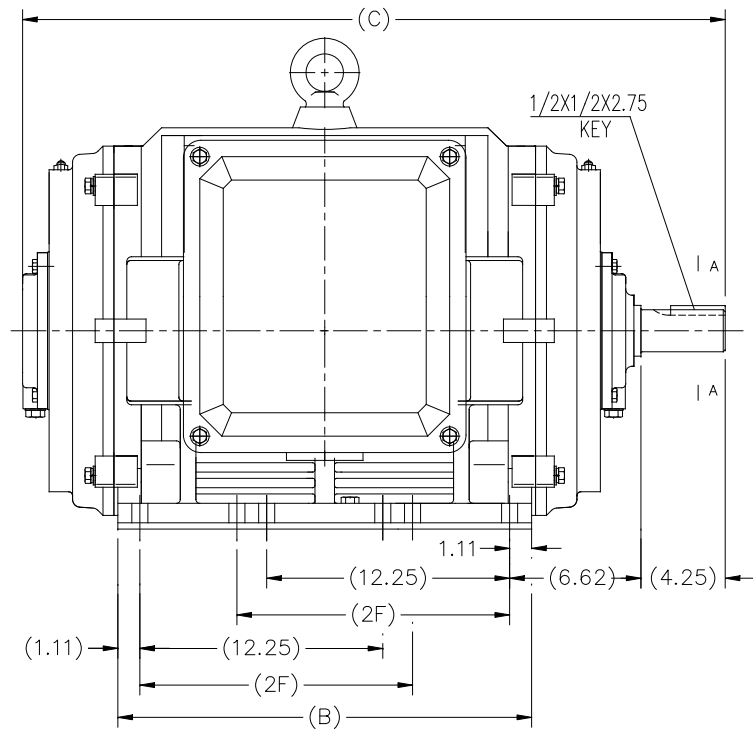
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	228.0/114.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	F	Frame	404TS
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	50 °C	Drive End Bearing Size	6316
Opp Drive End Bearing Size	6315	UL	No
CSA	Y	CE	Y
IP Code	23		

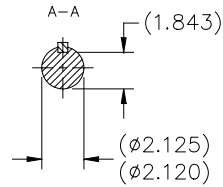
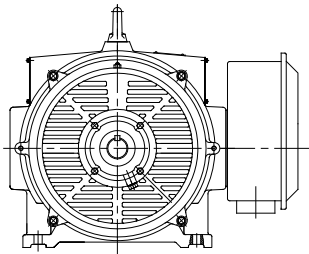
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	TS
Overall Length	33.86 in	Frame Length	19.68 in
Shaft Diameter	2.125 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS620752-404TS	Connection Diagram	EE7308AA

SS620752

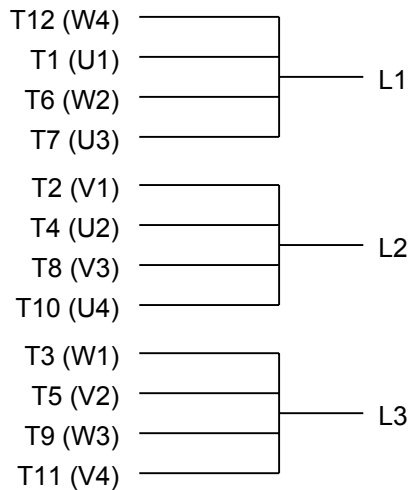


F2 MOUNTING

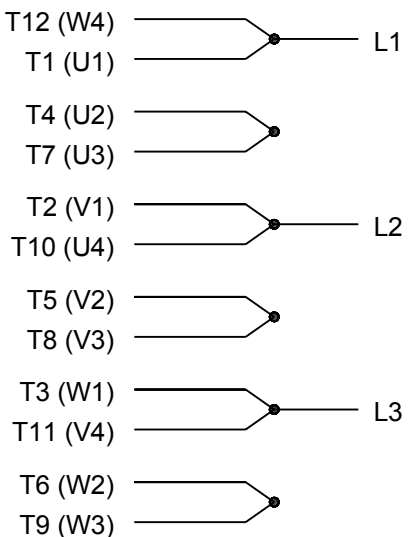


404TS	33.86	19.29	N/A	8 HOLES
405TS	35.44	20.87	13.75	12 HOLES
Frame	C	B	2F	N HOLES

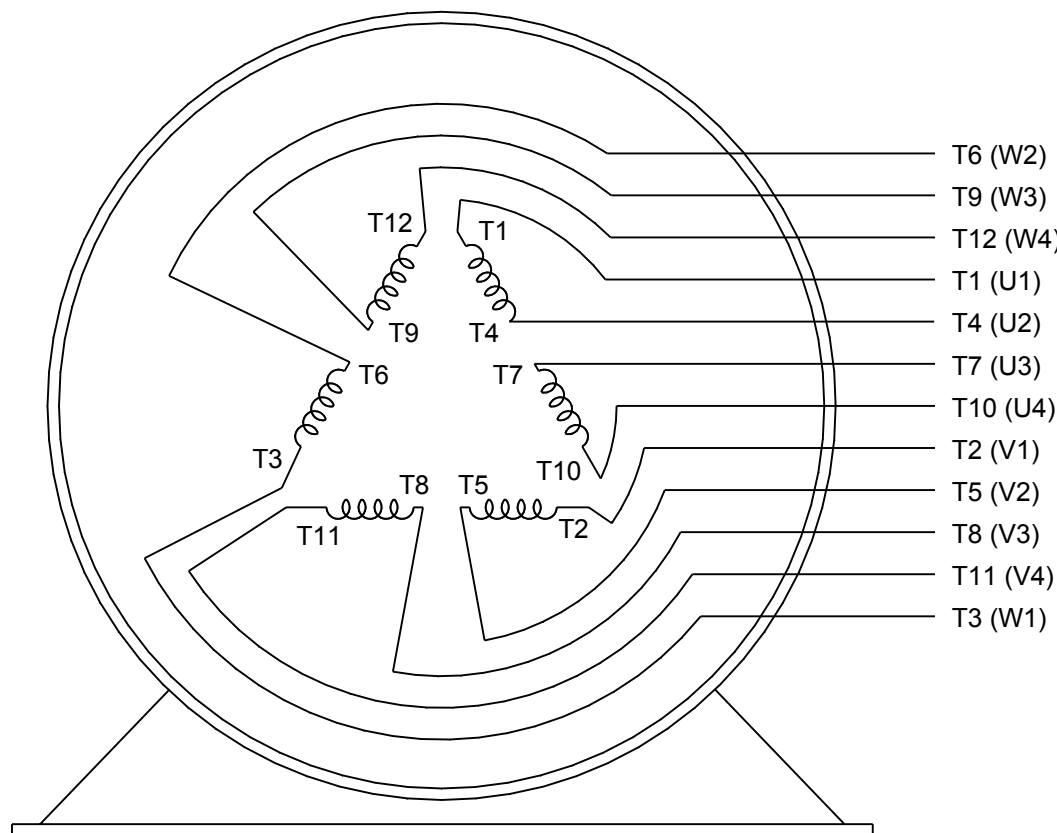
TOLERANCES UNLESS SPECIFIED		DRAWN WY 07-21-2016	
DEC.	INCHES	CHK	
.X	±.1	APPD	
.XX	±.03	SCALE	NONE
.XXX	±.005	REF	
.XXXX	±.0005	FMF	WUXI
NO.	REVISION	BY & DATE	PREV
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CHK	ANG	±7°30"	FINISH
RFP	CAD FILE	SS620752	SIZE
DIST	DRAWING NO.	SS620752	PAGE 1 OF 1
	REV.		



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ	 Regal Beloit America, Inc.	
DATE 01-12-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS	
DATE 01-14-1994		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1



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 #:	404TSTD04332
CONN. DIAGRAM:	EE7308AA	CAT #:	U528A
OUTLINE:	SS620752	CUSTOMER PART #:	
WINDING:	IE2L2504102	NONE	2
SPEED:		MOUNTING:	F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
100	75	1800	1785	404TS	DP	TDC	F	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	228/114&210/105	WS(LV ONLY) & YDRU	CONT	F	1.15	50	3300
F.L. EFF		94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE	
F.L. PF		87.0	3/4 LD PF	85.0	1/2 LD PF	78.0	93.0	SQ CAGE IND RUN	
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)	
295 LB-FT		675		500 LB-FT		169%		690 LB-FT 234%	
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME	
80 dBA		89 dBA		0.00 LB-FT²		0 LB-FT²		20 SEC.	
								STARTS/HOUR	
								0	
								MOTOR WGT	
								0 LB.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE		ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD		STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	RED (ENAMEL)
BEARINGS			GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE	ODE								
BALL	BALL	POLYREX EM	TS	NONE		NONE	1045 HOT ROLLED (C-204)		CAST IRON
6316	6315								
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		
0.051		0.021	0.187	0.321	7.577	0.150	ODE		
N		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE							
O									
T									
E									
S									
ENCODER: NONE		NONE PPR							

Data Sheet

4041STD0D4332

Date: 8/30/2018

Customer:
Attention:
Submitted by: FAREEDA DUDEKULA



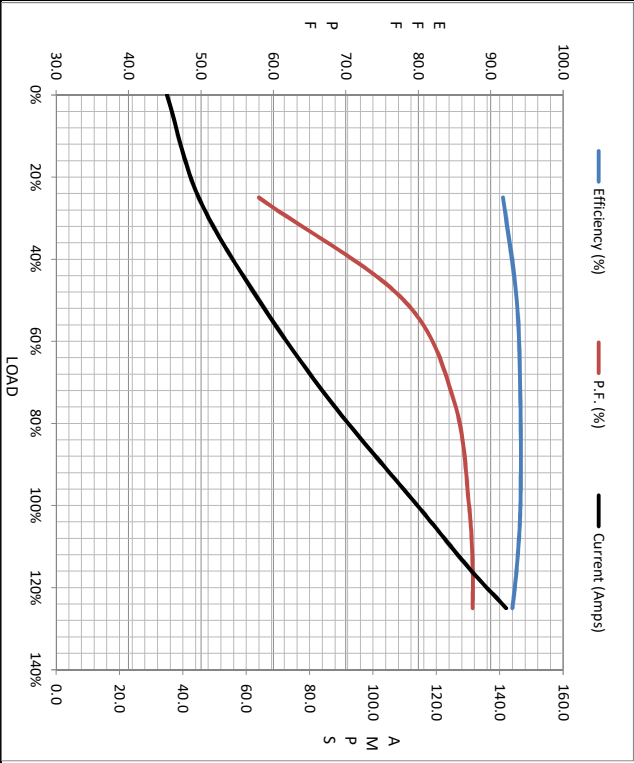
Submital
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	35.0	45.0	64.0	87.0	114	130	142	675
Torque (ft-lb)	0.00	73.5	147	221	295	340	370	500
RPM	1800	1795	1792	1788	1785	1,782	1780	0
Efficiency (%)		91.7	93.6	94.1	94.1	93.6	93.0	
P.F. (%)	5.0	58.0	78.0	85.0	87.0	87.5	87.5	36.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1725	1785	1800		
Current (Amps)	675	600	400	114	35.0		
Torque (ft-lb)	500	425	690	295	0.00		
						HP	100.0
						Sync. RPM	1800



Efficiency (%)	P.F. (%)	Current (Amps)
91.7	58.0	45.0
93.6	78.0	64.0
94.1	85.0	87.0
94.1	87.0	114
93.6	87.5	130
93.0	87.5	142
36.0		675

Speed - Torque Curve

