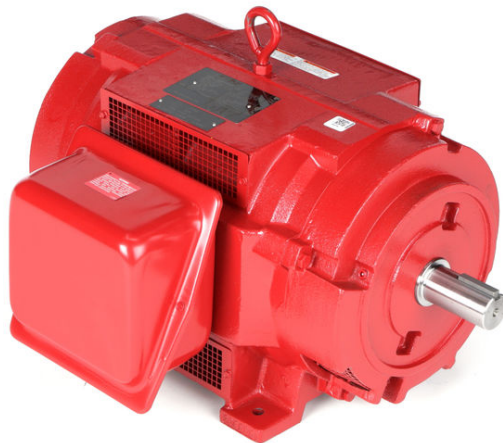


PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TSTD4010
Catalog No: U512A
50,3600,DP,324TS,3/60/230/460
Fire Pump



Regal and Marathon are trademarks of Regal Beloit Corporation or one of its affiliated companies.
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E

REGAL

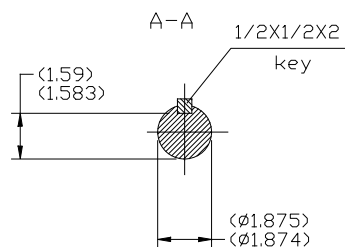
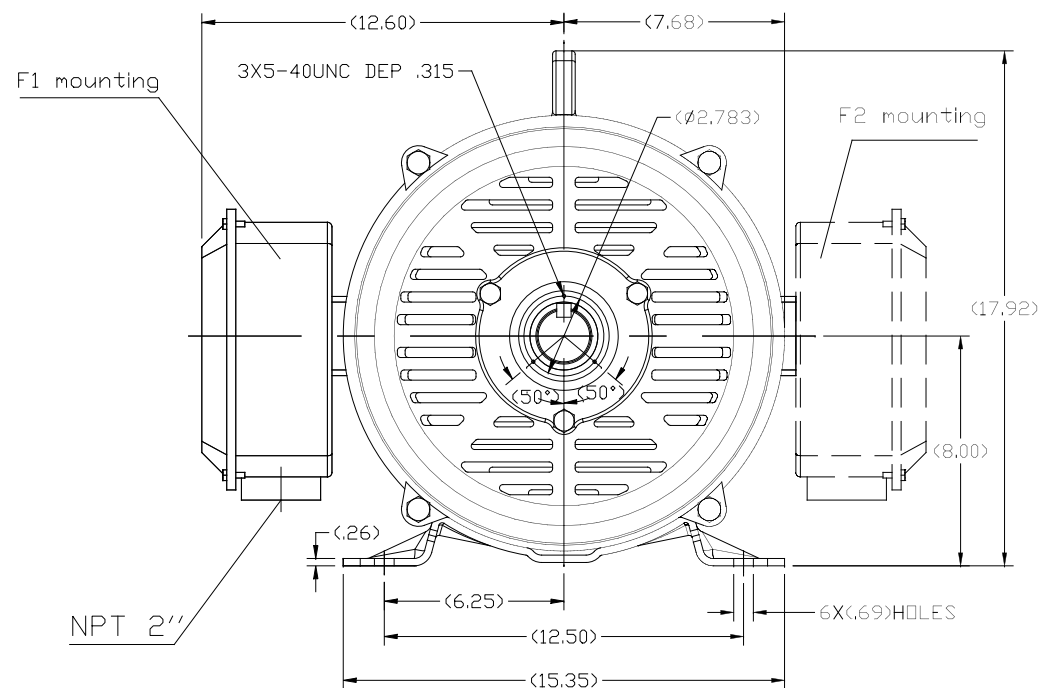
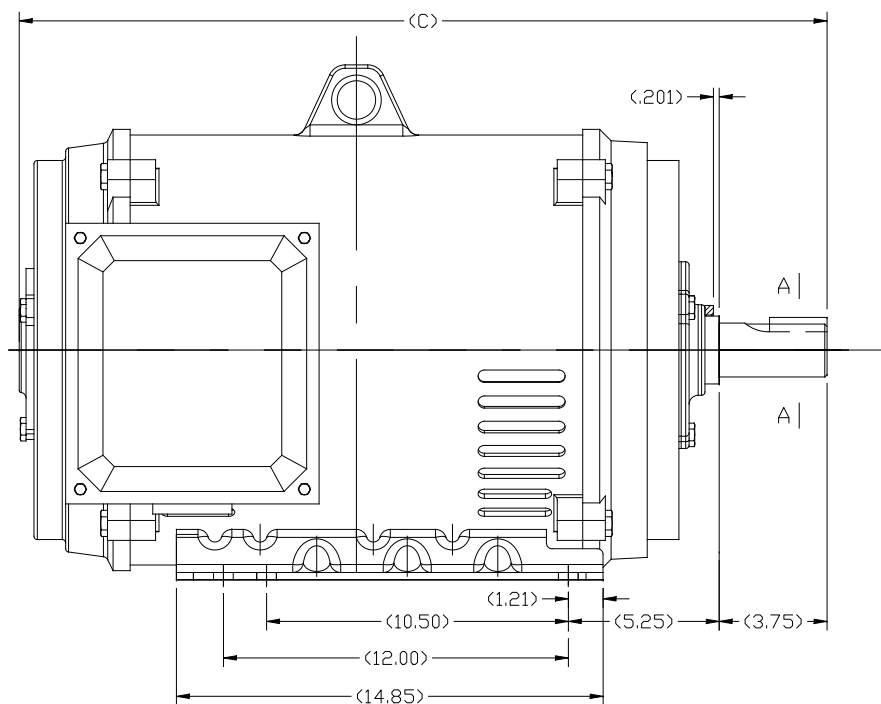


Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	114.0/57.0 A	Speed	3565 rpm
Service Factor	1.15	Phase	3
Efficiency	92.4 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	324TS
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	50 °C	Drive End Bearing Size	6212
Opp Drive End Bearing Size	6212	UL	No
CSA	Y	CE	Y
IP Code	23		

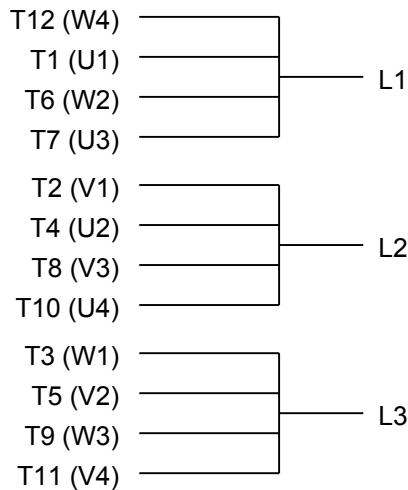
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	2	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	27.05 in	Frame Length	9.06 in
Shaft Diameter	1.875 in	Shaft Extension	3.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS620744-324TS	Connection Diagram	EE7308AA

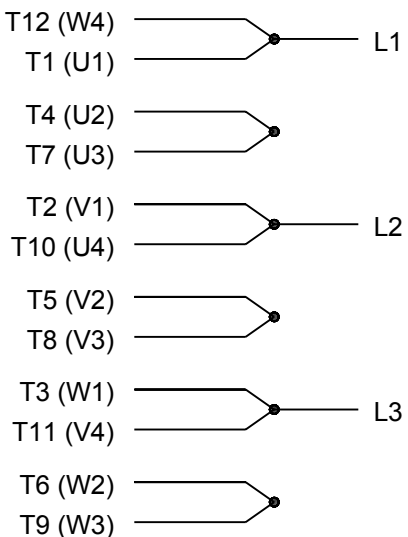


324TS	27.05
326TS	28.23
FRAME	C

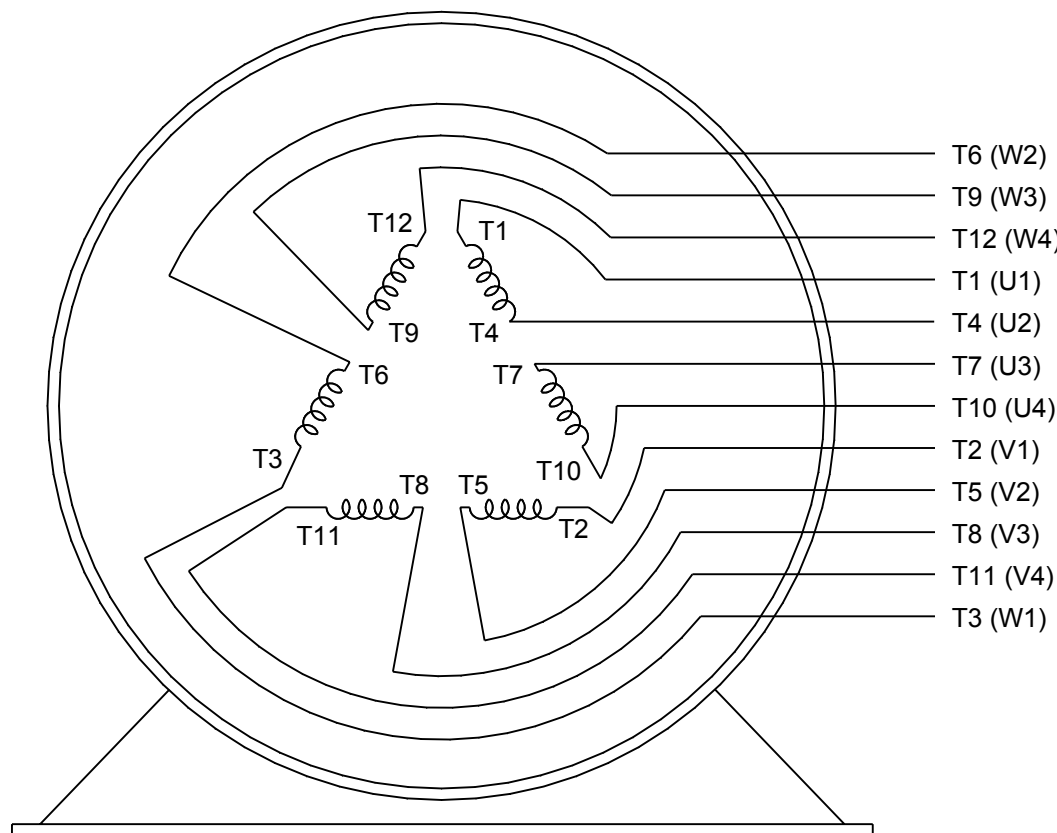
				TOLERANCES UNLESS SPECIFIED		DRAWN Xlaorel Zhu
			DEC.	INCHES	 REGAL-BELOIT CORPORATION	CHK
			.X	±.1		APPD
			.XX	±.03		SCALE IN
			.XXX	±.005		REF
			.XXXX	±.0005		FMP REGAL-WUXI
				MAT'L		PREV
NO.	REVISION	BY & DATE	CHK	ANG ±1/2"	FINISH	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST 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 SS620744	SIZE B DRAWING NO. SS620744
					DIST	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		
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.		

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 #:	324TSTD04010
CONN. DIAGRAM:	EE7308AA	CAT #:	U512A
OUTLINE:	SS620744	CUSTOMER PART #:	
WINDING:	IE3L2002110	MOUNTING:	F1/F2 CAPABLE
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
50	37	3600	3565	324TS	DP	TDC	F	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	114/57&110/55	WS(LV ONLY) & YDRU	CONT	F	1.15	50	3300
F.L. EFF		92.4	3/4 LD EFF	92.4	1/2 LD EFF	91.7	GTD EFF	ELECT. TYPE	
F.L. PF		88.0	3/4 LD PF	86.0	1/2 LD PF	81.0	91.0	SQ CAGE IND RUN	
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)	
73.5 LB-FT		330		110 LB-FT		150%		170 LB-FT	
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME	
999 dBA		1008 dBA		0.00 LB-FT²		250 LB-FT²		20 SEC.	
								2	
								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	NONE	1045 HOT ROLLED (C-204)		CAST IRON
6212	6212								
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	
0.105		0.005	0.448	0.533	17.004	0.150		ODE	
INVERTER TORQUE: NONE									
INV. HP SPEED RANGE: NONE									
ENCODER: NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									
NONE									

PREPARED BY: FAREEDA DUDEKULA	DATE: 8/20/2018	FT-LB: NA	NONE	HZ:
FORM: 3531 REV_4 2/27/06		VOLTAGE: NONE		

Data Sheet

3241STD0CD4010

Date: 8/20/2018

Customer:
Attention:

Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

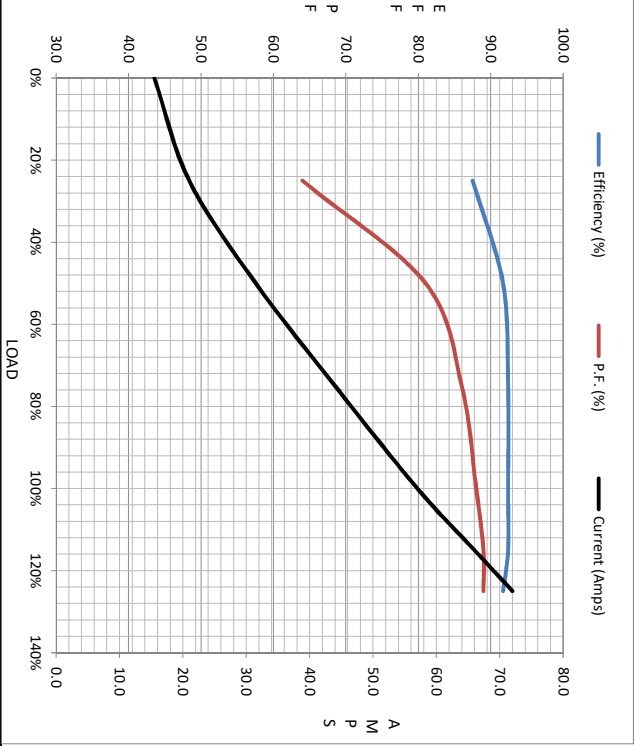
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	15.5	21.0	31.5	44.0	57.0	66.0	72.0	330
Torque (ft-lb)	0.00	18.5	36.5	55.0	73.5	85.0	92.5	110
RPM	3600	3592	3585	3575	3565	3,560	3555	0
Efficiency (%)		87.5	91.7	92.4	92.4	92.4	91.7	
P.F. (%)	8.0	64.0	81.0	86.0	88.0	89.0	89.0	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3665	3600
Current (Amps)	330	300	185	57.0	15.5
Torque (ft-lb)	110	90.0	170	73.5	0.00

Information Block

HP	50.0			
Sync. RPM	3600			
Frame	3241821TF06080			
Enclosure	DP			
Construction	TDC			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.00 Lb-Ft²			
Ref Wdg	IE3L2002110 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	SS620744			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1050	0.0050	0.4480	0.5330	17.0040



Speed - Torque Curve

