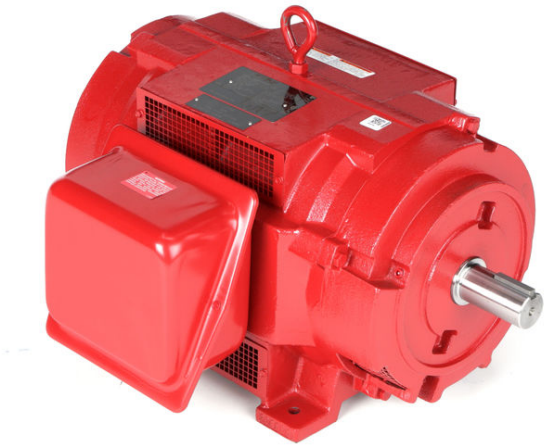
PRODUCT INFORMATION PACKET

Model No: 324TSTDCD4008
Catalog No: U1109
50,3600,DP,326T,3/60/575
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

Nameplate Specifications

Output HP	**50 Hp**	Output KW	**37.0 kW**
Frequency	**60 Hz**	Voltage	**575 V**
Current	**45.5 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**		

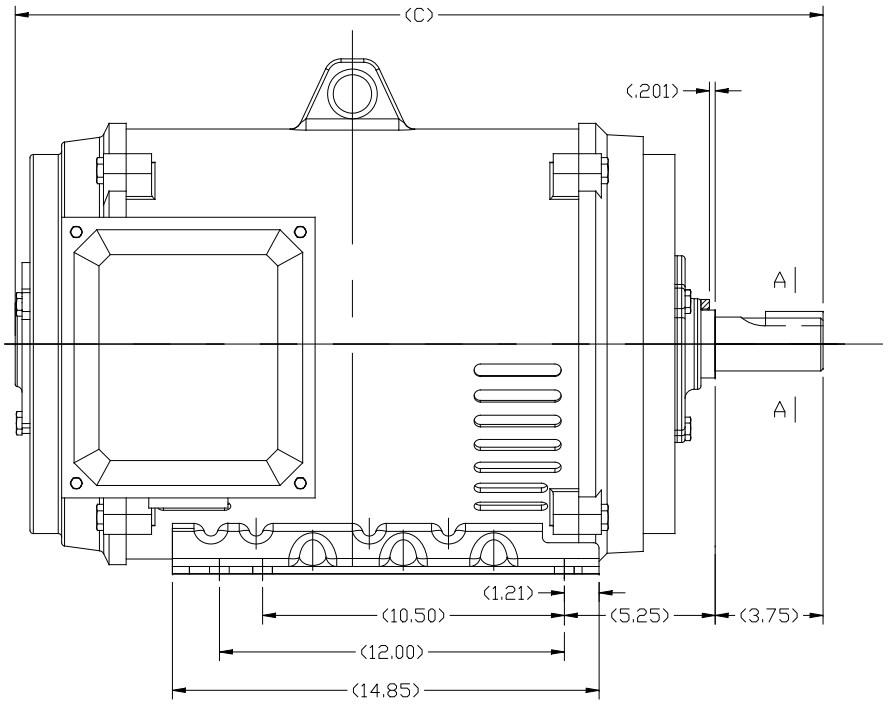
Technical Specifications

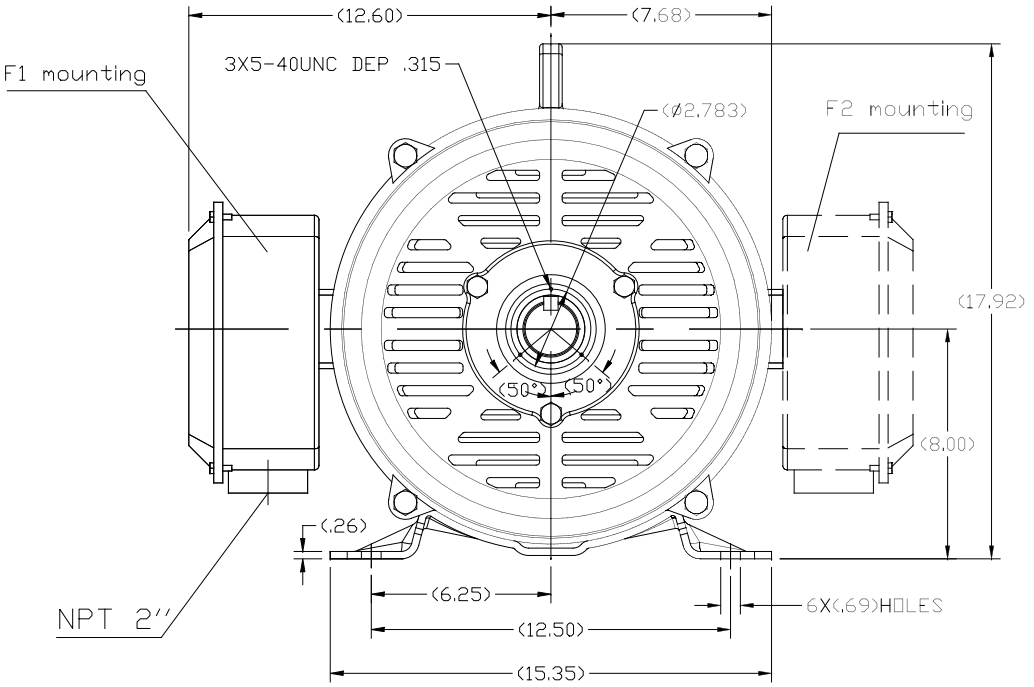
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Part Wdg Start & Wye Start Delta Run**
Poles	**2**	Rotation	**Reversible**
Mounting	**Rigid base**	Motor Orientation	**HORIZONTAL**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**Cast Iron**	Shaft Type	**TS**
Overall Length	**27.05 in**	Frame Length	**14.56 in**
Shaft Diameter	**1.875 in**	Shaft Extension	**3.75 in**
Assembly/Box Mounting	**F1/F2 CAPABLE**		
Outline Drawing	**SS620744-324TS**	Connection Diagram	**EE7300BH**

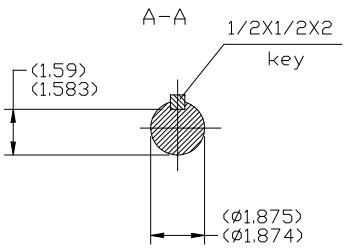
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 10/30/2018

Uncontrolled Copy

SS620744



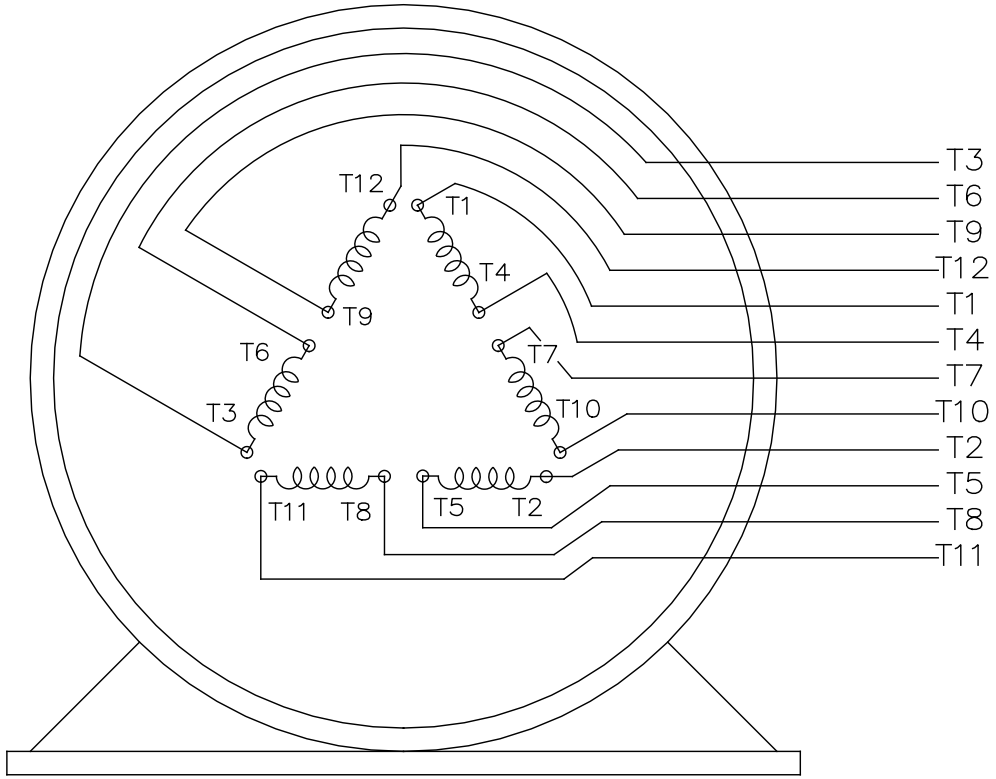




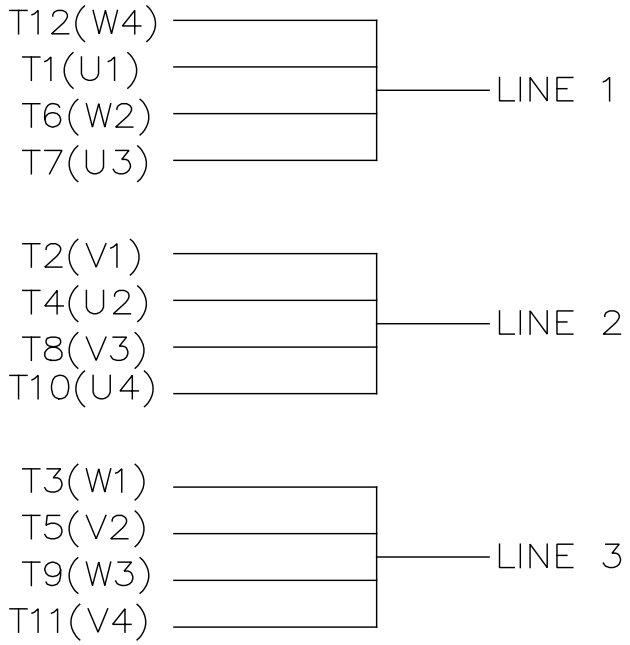
324TS	27.05
326TS	28.23
FRAME	C

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN Xiaowei Zhu
				DEC.	INCHES			CHK
				.X	±.1			APPD
				.XX	±.03	TITLE OUTLINE		SCALE 1:1
				.XXX	±.005	324/326TS ODP-ROLLED STEEL		REF
				.XXXX	±.0005	MAT'L.		FMF REGAL-WUXI
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	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 SS620744	SIZE B	DRAWING NO. SS620744 REV.
			DIST					

Uncontrolled Copy



VIEW OF TERMINAL END



				TOLERANCES UNLESS SPECIFIED				
				DEC.	INCHES	REGAL - BELOIT CORPORATION	DRAWN RJW 02–11–2005	
							CHK ML 02–11–2005	
				.X	±.1		APPD GK 02–11–2005	
				.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE	
D	CHANGED TO REGAL TITLE BLOCK ECO–0108299	WGJ 08/22/2016	EMH	.XXX	±.005	12 LEAD– SINGLE VOLTAGE	REF	
1	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 05/24/2007	ML	.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 02–11–2005	CAD FILE ee7300bh	SIZE	DRAWING NO. PAGE OF	REV.
DIST LB		A	EE7300BH	C

Uncontrolled Copy

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7300BH
OUTLINE: SS620744
WINDING: IE3L2002110 NONE 4
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 324TSTDCD4008
CAT #: U1109
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

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	575	45.5	PWS & YDRUN	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	264	110 LB-FT 150%	170 LB-FT 231%	45	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
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 DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6212	BALL 6212	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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
0.164	0.007	0.7	0.833	26.569	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:
UL: NONE

PREPARED BY: FAREEDA DUDEKULA
DATE: 8/20/2018

FORM: 3531 REV_4 2/27/06

Uncontrolled Copy

Data Sheet

Date: 8/20/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

324TSTDCD4008

Submittal

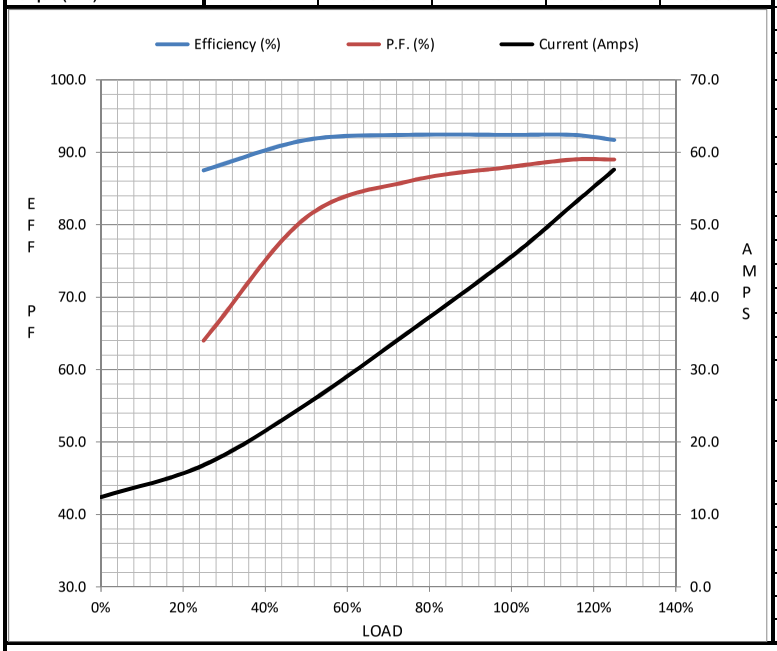
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	12.4	16.8	25.2	35.2	45.6	52.8	57.6	264	
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

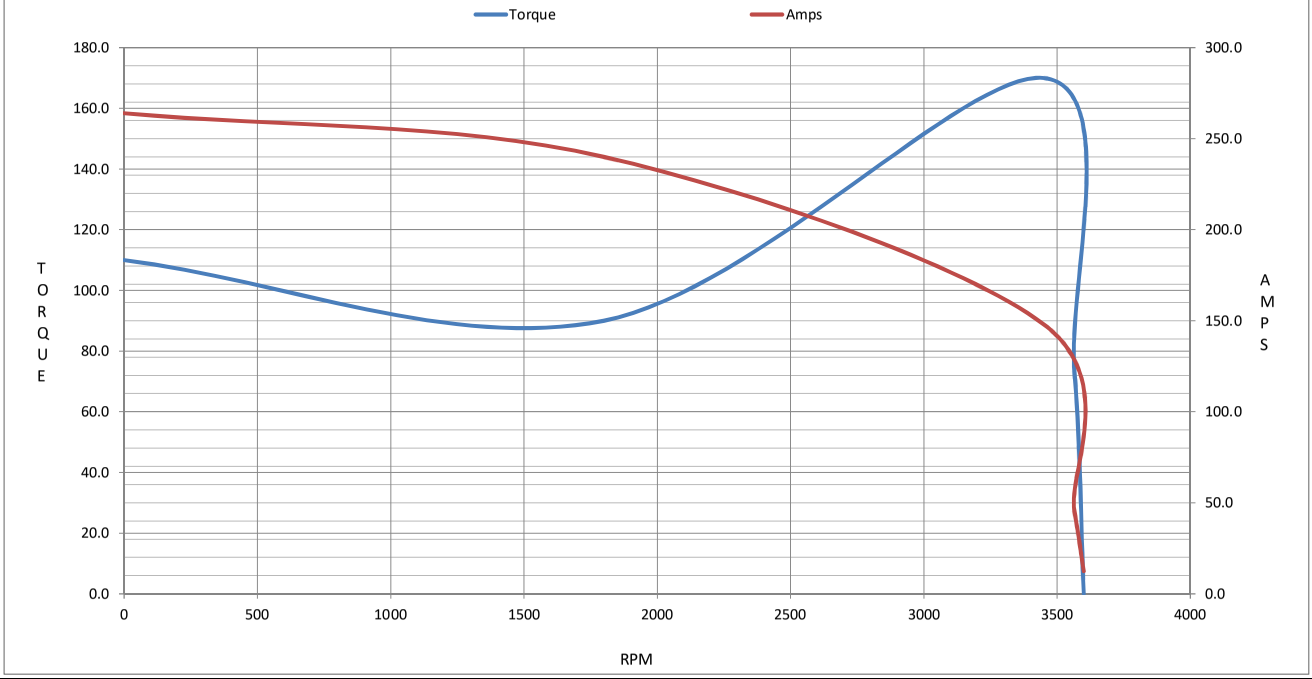
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3450	3565	3600
Current (Amps)	264	240	148	45.6	12.4
Torque (ft-lb)	110	90.0	170	73.5	0.00



Information Block

HP	50.0
Sync. RPM	3600
Frame	324182TTFC6080
Enclosure	DP
Construction	TDC
Voltage	575 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	EE7300BH
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1640	0.0070	0.7000	0.8330	26.5690

Speed -Torque Curve