

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 365TSTFS14009

Catalog No: Y1625

Fire Pump Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 365TS Frame,
TEFC



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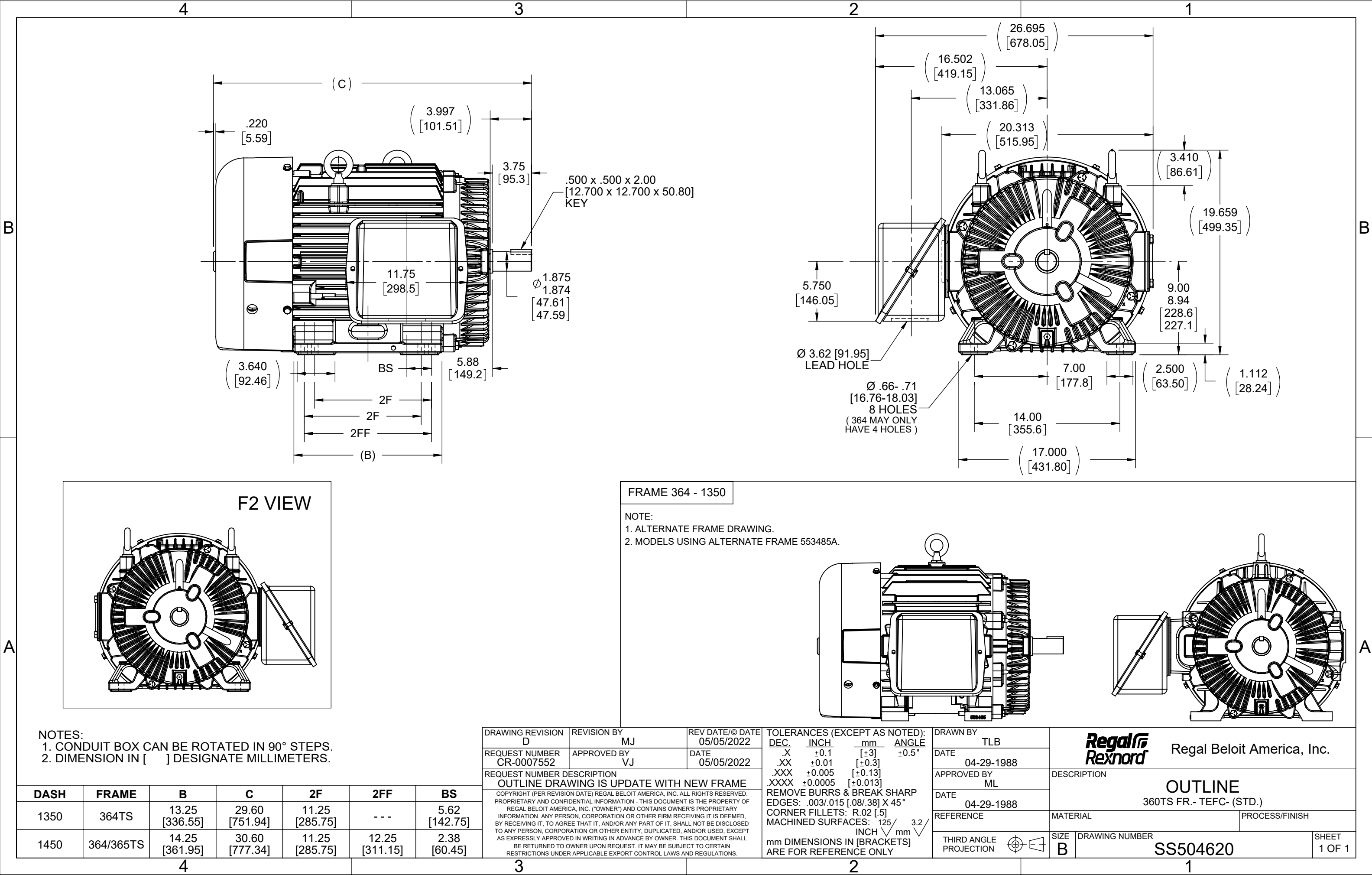
RegalRexnord

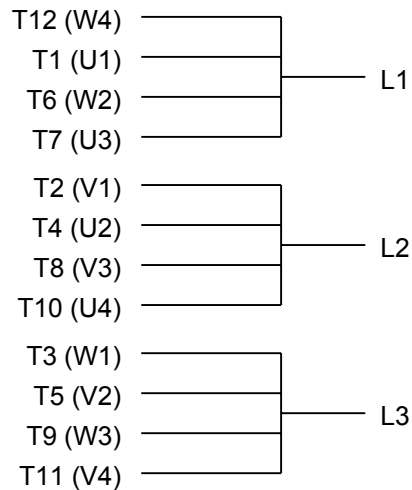
Nameplate Specifications

Phase	3	Output HP	75 & 60 Hp
Output KW	56.0 & 45.0 kW	Voltage	230/460 & 190/380 V
Speed	3558 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	365TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	93 & 93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	172/86 & 166/83 A	Power Factor	87.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	No	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

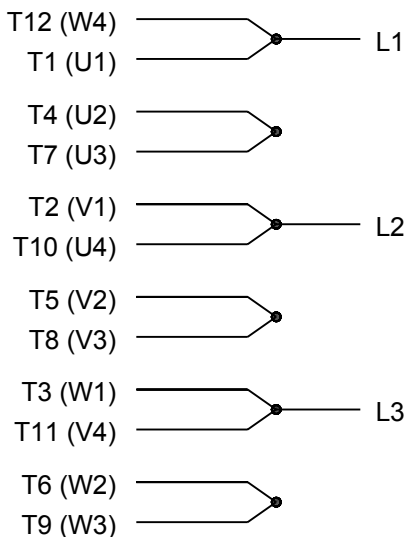
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.072 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	30.38 in
Frame Length	14.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.99 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7308AA	Outline Drawing	B-SS504620-1450

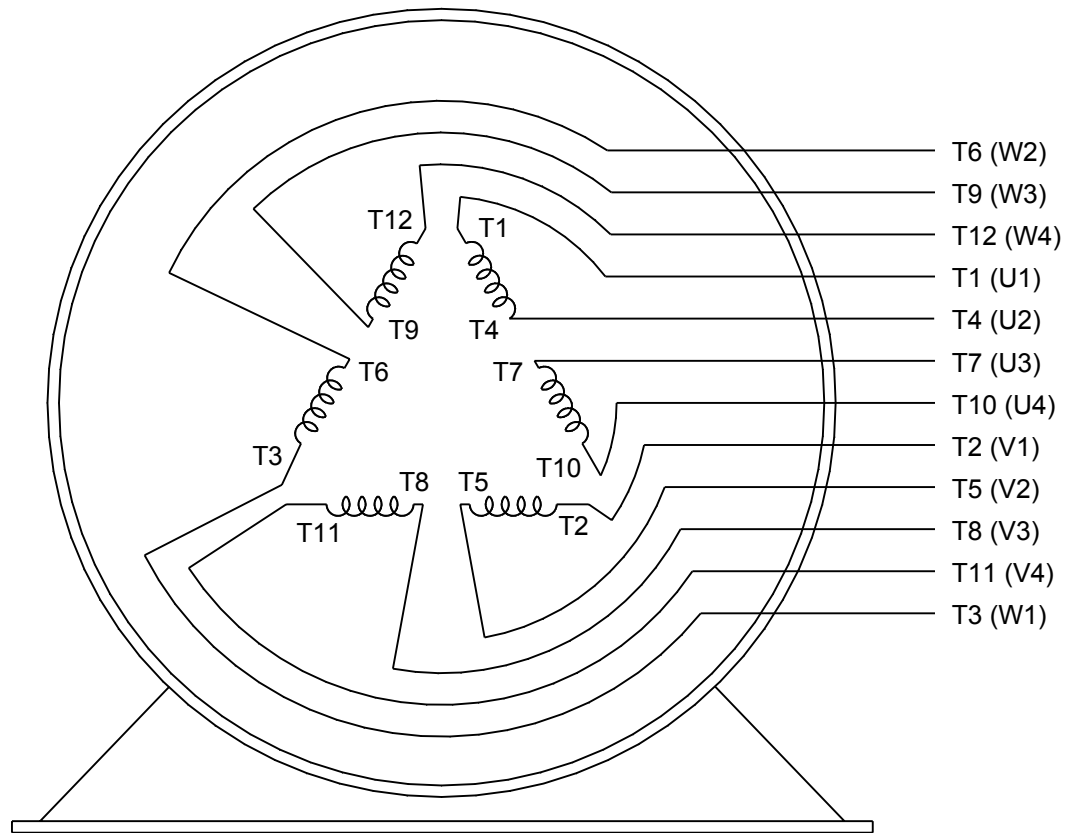




LOW VOLTAGE



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

CERTIFICATION DATA SHEET

Model#: 365TSTFS14009 AN
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS504620-1450

WINDING#: T365273 NONE 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75&60	56&45	3600	3558&2960	365TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	172/86&166/8 3	PWS(LV ONLY) & YDRUN	CONTINUOU S	F1	1.15/1.15	40	3300

FULL LOAD EFF: 93&93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87.5&88	3/4 LOAD PF: 86	1/2 LOAD PF: 80	91.7	SQ CAGE IND RUN	48 / 24

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
111 LB-FT	1070 / 535	200 LB-FT 180	270 LB-FT 242	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	8.2 LB-FT^2	55 LB-FT^2	15 SEC.	2	925 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	RED (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6312	6312	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

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DATE: 06/22/2017 12:15:25 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



365TSTFS14009

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.0	32.0	48.0	66.0	86.0	98.0	108	535	
Torque (ft-lb)	0.00	28.0	55.0	83.0	111	128	139	200	
RPM	3600	3590	3580	3570	3558	3,550	3545	0	
Efficiency (%)		87.5	92.4	93.0	93.0	93.0	92.4		
P.F. (%)	9.0	62.0	80.0	86.0	87.5	88.0	88.0	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	1800	3375	3558	3600																													
Current (Amps)	535	475	310	86.0	24.0																													
Torque (ft-lb)	200	175	270	111	0.00																													
Efficiency (%) P.F. (%) Current (Amps) <table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>87</td><td>62</td><td>24</td></tr><tr><td>50</td><td>92</td><td>80</td><td>40</td></tr><tr><td>75</td><td>93</td><td>85</td><td>60</td></tr><tr><td>100</td><td>93</td><td>87</td><td>80</td></tr><tr><td>125</td><td>93</td><td>88</td><td>100</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	87	62	24	50	92	80	40	75	93	85	60	100	93	87	80	125	93	88	100	Information Block				
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	87	62	24																									
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						75	93	85	60																									
						100	93	87	80																									
						125	93	88	100																									
						HP		75.0																										
						Sync. RPM		3600																										
						Frame		365																										
						Enclosure		TEFC																										
						Construction		TFS																										
						Voltage		30/460#190/381V																										
						Frequency		60 Hz																										
						Design		A																										
						LR Code letter		G																										
						Service Factor		1.15																										
						Temp Rise @ FL		75 °C																										
						Duty		CONT																										
						Ambient		40 °C																										
						Elevation		1,000 feet																										
						Rotor/Shaft wk²		8.2 Lb-Ft²																										
						Ref Wdg		T365273 NONE																										
Sound Pressure @ 1M		78 dBA																																
VFD Rating		NONE																																
Outline Dwg		B-SS504620-1450																																
Conn. Diag		A-EE7308AA																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.0530	0.0380	0.3060	0.3550	10.9620																														

Speed -Torque Curve

