

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 365TTFS16862

Catalog No: E627-P

75 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 365T Frame, TEFC
Severe Duty Motors



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RegalRexnord

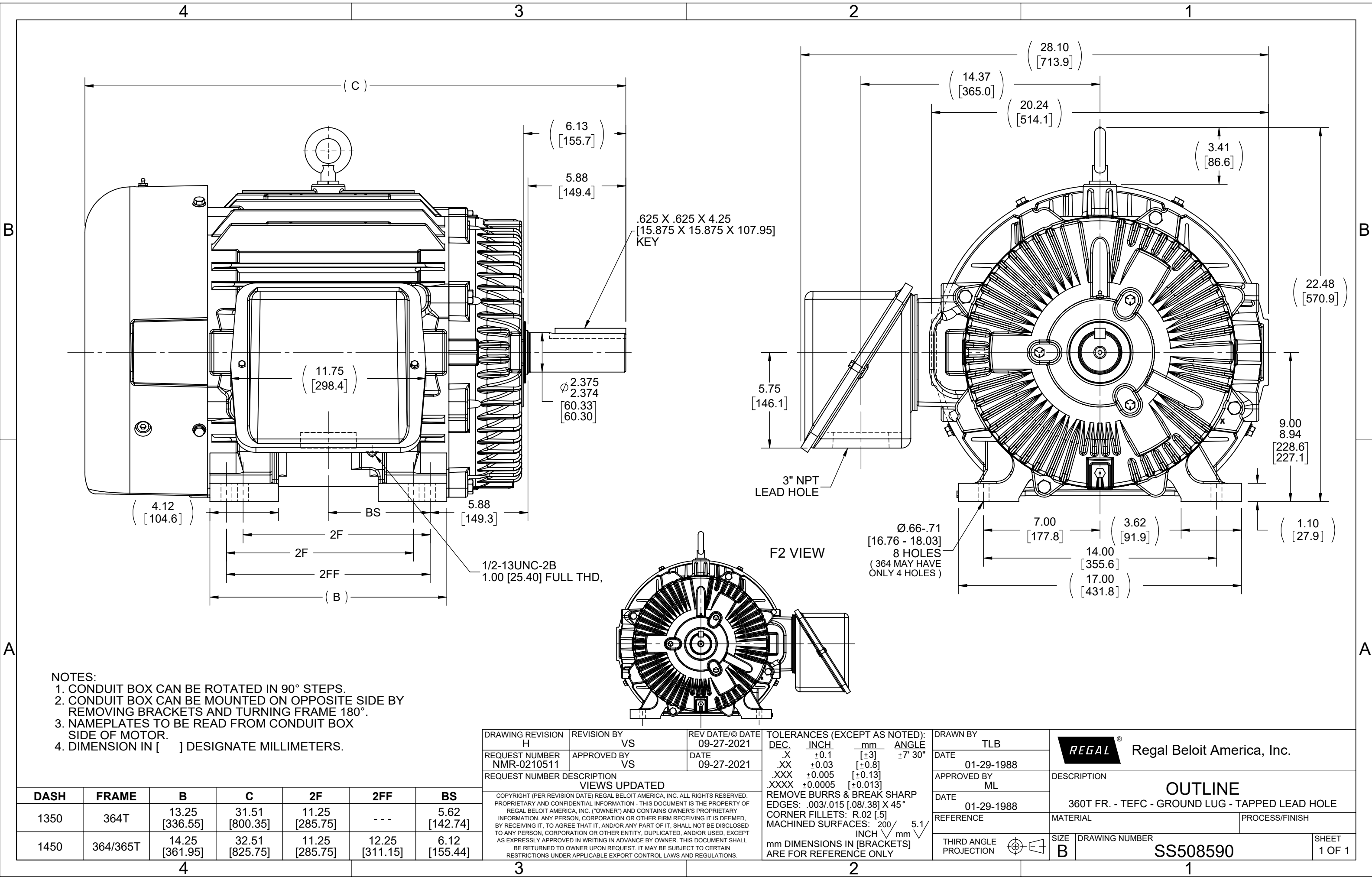
Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	460 V
Current	86.0 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	365T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.075 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	32.51 in
Frame Length	14.50 in	Shaft Diameter	2.375 in
Shaft Extension	6.12 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300U	Outline Drawing	B-SS508590-1450

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IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH. mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 200^{INCH} 5.1^{mm} mm SHOWN IN [BRACKETS]	DRAWN BY DRS	REGALTM Regal Beloit America, Inc.	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE		
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015		DATE 09-27-1996				
ECO DESCRIPTION UPDATED TO SOLIDWORKS				APPROVED BY GK				
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				REFERENCE	MATERIAL	PROCESS/FINISH		
				THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 365TTFS16862 AN
 CONN. DIAGRAM: A-EE7300U
 OUTLINE: B-SS508590-1450

WINDING#: T367405 NONE 6
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75	56	1800	1780	365T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	86	LINE OR INVERTER	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 95.4	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: 83.5	1/2 LOAD PF: 76	95	SQ CAGE INV RATED	28

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
221 LB-FT	542	445 LB-FT 201	575 LB-FT 260	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
68 dBA	78 dBA	18.5 LB-FT^2	500 LB-FT^2	25 SEC.	2	1050 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6314	6312	POLYREX EM	T	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

* N O T E S *	INVERTER TORQUE: CONSTANT 2:1		
	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

DATE: 06/22/2017 03:30:34 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/16/2017

Customer: _____

Attention: _____

Submitted by: EARL BABBITTS



365TFS16862

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	28.0	34.0	49.0	66.5	86.0	98.5	108	542	
Torque (ft-lb)	0.00	55.0	110	166	221	255	278	445	
RPM	1800	1795	1790	1785	1780	1,775	1772	0	
Efficiency (%)		91.7	95.0	95.4	95.4	95.0	94.5		
P.F. (%)	4.5	56.0	76.0	83.5	86.0	86.5	86.5	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																												
Speed (RPM)	0	900	1725	1780	1800	HP	75.0																											
Current (Amps)	542	500	300	86.0	28.0	Sync. RPM	1800																											
Torque (ft-lb)	445	375	575	221	0.00	Frame	365																											
— Efficiency (%) — P.F. (%) — Current (Amps) <table border="1"><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>92</td><td>55</td><td>25</td></tr><tr><td>50</td><td>94</td><td>78</td><td>45</td></tr><tr><td>75</td><td>95</td><td>85</td><td>70</td></tr><tr><td>100</td><td>95</td><td>87</td><td>90</td></tr><tr><td>125</td><td>94</td><td>87</td><td>105</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	92	55	25	50	94	78	45	75	95	85	70	100	95	87	90	125	94	87	105	Enclosure	TEFC			
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	92	55	25																									
						50	94	78	45																									
						75	95	85	70																									
						100	95	87	90																									
						125	94	87	105																									
						Construction	TFS																											
						Voltage	460 V																											
						Frequency	60 Hz																											
						Design	A																											
						LR Code letter	G																											
						Service Factor	1.15																											
						Temp Rise @ FL	80 ° C																											
						Duty	CONT																											
						Ambient	40 ° C																											
						Elevation	1,000 feet																											
Rotor/Shaft wk ²	18.5 Lb-Ft ²																																	
Ref Wdg	T367405 NONE																																	
Sound Pressure @ 1M	68 dBA																																	
VFD Rating	CONSTANT 2:1																																	
Outline Dwg	B-SS508590-1450																																	
Conn. Diag	A-EE7300U																																	
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.0560	0.0360	0.3190	0.3860	9.2420																														

Speed -Torque Curve

