

Inverter (Vector) Duty Motors

Model No: 364THFS8036

Catalog No: Y573

Inverter (Vector) Duty Motor, 60 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 364T Frame, TEFC

Product Information Packet: Model No: 364THFS8036, Catalog No: Y573 Inverter (Vector) Duty Motor, 60 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 364T Frame, TEFC

Nameplate Specifications

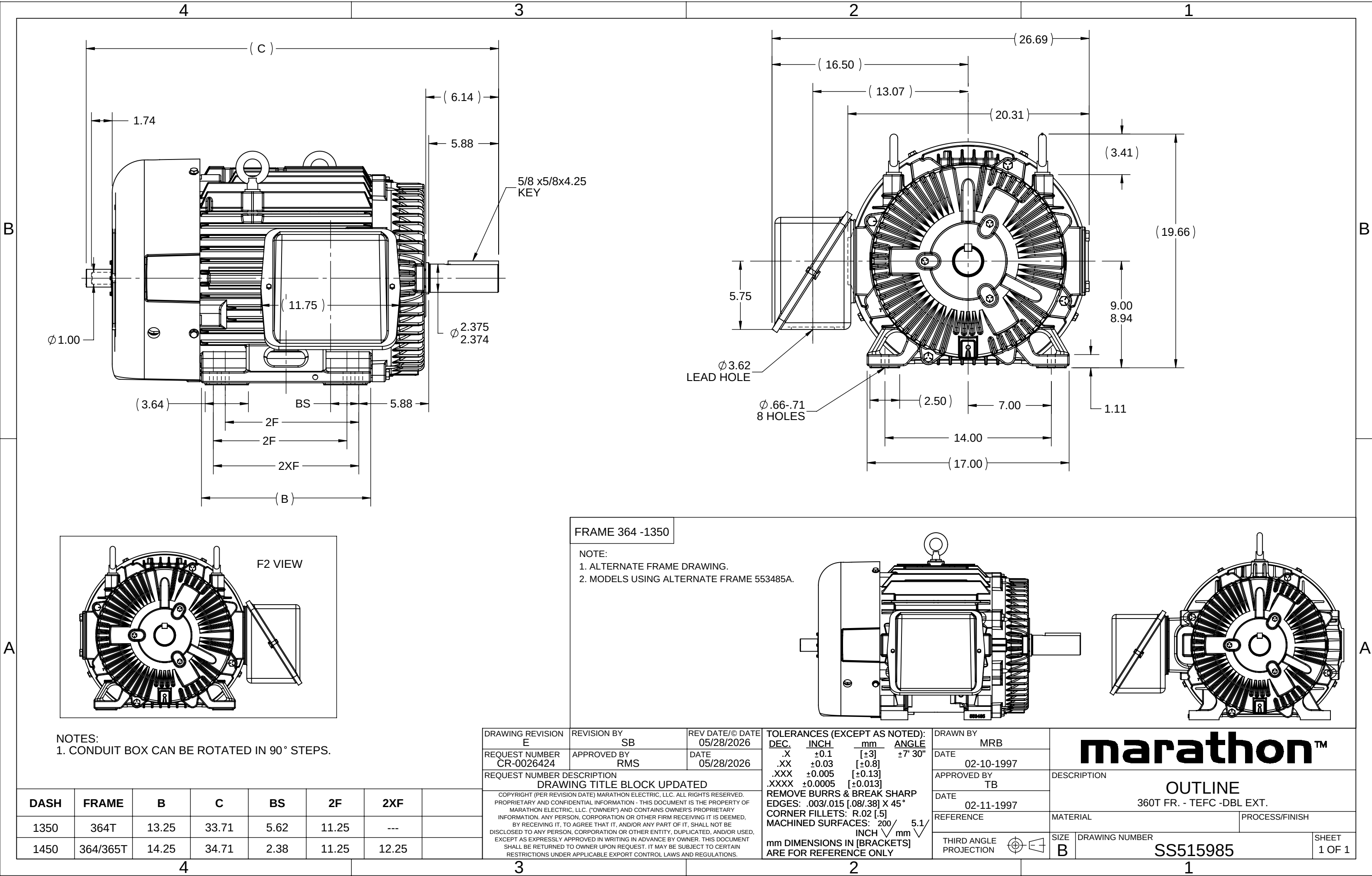
Phase	3	Output HP	60 Hp
Output KW	45.0 kW	Voltage	230/460 V
Speed	1782 r/min	Synchronous RPM	1800 r/min
Service Factor	1.0	Frame	364T
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	Thermostat
Efficiency	92.4 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	146.0/73.0 A
Power Factor	83	Duty	Continuous
Insulation Class	H	Design Code	INV
KVA Code	J	Drive End Bearing Size	6314
Opp Drive End Bearing Size	6312	UL	Recognized
CSA	Y	CE	Y
IP Code	43	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.087 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	33.71 in
Frame Length	13.5 in	Shaft Diameter	2 3/8 in
Shaft Extension	6.12 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	Constant 2000:1		

Drawings

Connection Drawing	A-EE7308T	Outline Drawing	B-SS515985-1350
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DASH	FRAME	B	C	BS	2F	2XF	
1350	364T	13.25	33.71	5.62	11.25	---	
1450	364/365T	14.25	34.71	2.38	11.25	12.25	

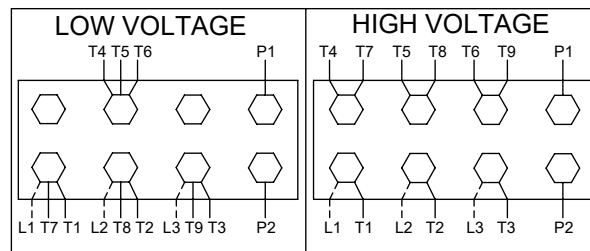
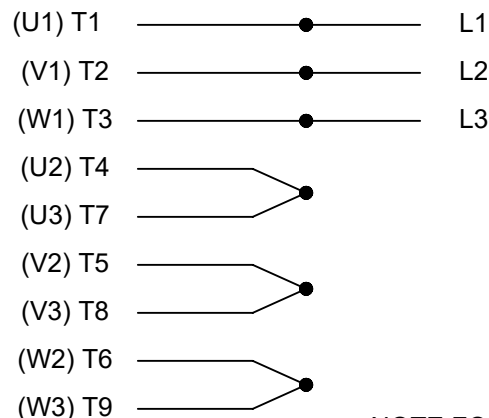
DRAWING REVISION E	REVISION BY SB	REV DATE/© DATE 05/28/2026
REQUEST NUMBER CR-0026424	APPROVED BY RMS	DATE 05/28/2026
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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TOLERANCES (EXCEPT AS NOTED):			
DEC.	INCH	mm	ANGLE
.X	± 0.1	[± 3]	$\pm 7^{\circ} 30''$
.XX	± 0.03	[± 0.8]	
.XXX	± 0.005	[± 0.13]	
.XXXX	± 0.0005	[± 0.013]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°			
CORNER FILLETS: R.02 [.5]			
MACHINED SURFACES: 200 $\sqrt{\text{mm}}$ 5.1 $\sqrt{\text{mm}}$			
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY			

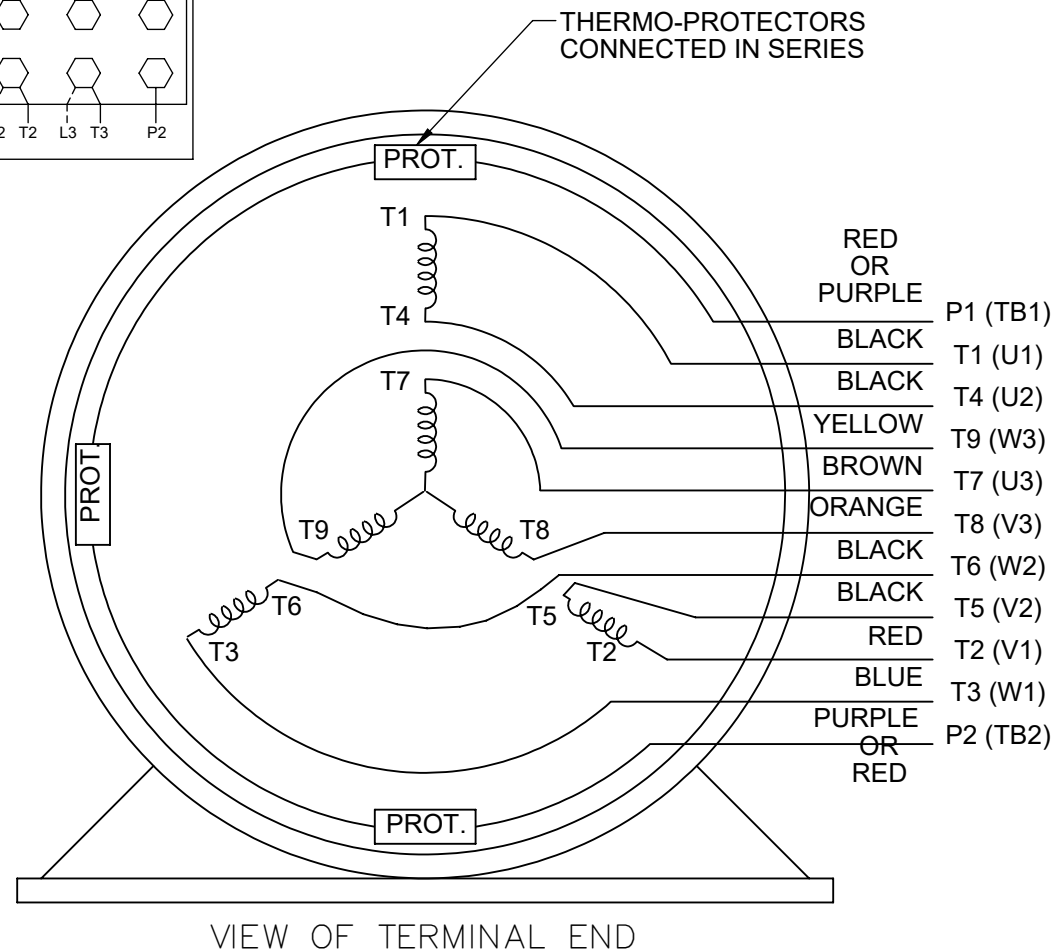
DRAWN BY MRB
DATE 02-10-1997
APPROVED BY TB
DATE 02-11-1997
REFERENCE
THIRD ANGLE PROJECTION

marathon™			
DESCRIPTION OUTLINE 360T FR. - TEFC -DBL EXT.			
MATERIAL		PROCESS/FINISH	
SIZE B	DRAWING NUMBER SS515985		SHEET 1 OF 1

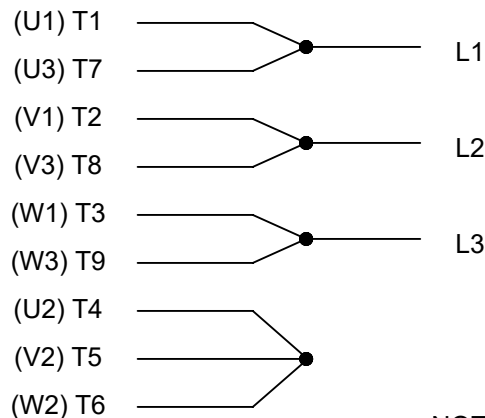
HIGH VOLTAGE



THREE PHASE DUAL VOLTAGE MOTOR



LOW VOLTAGE



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR IMG PLANT

DRAWING REVISION U	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY SMC	DATE 05-13-1992
APPROVED BY TB	DATE 05-13-1992
REFERENCE EE7308/EE7300	THIRD ANGLE PROJECTION

marathon™		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE - DUAL VOLTAGE MOTOR		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



364THFS8036

Submittal

Data @ 460 V

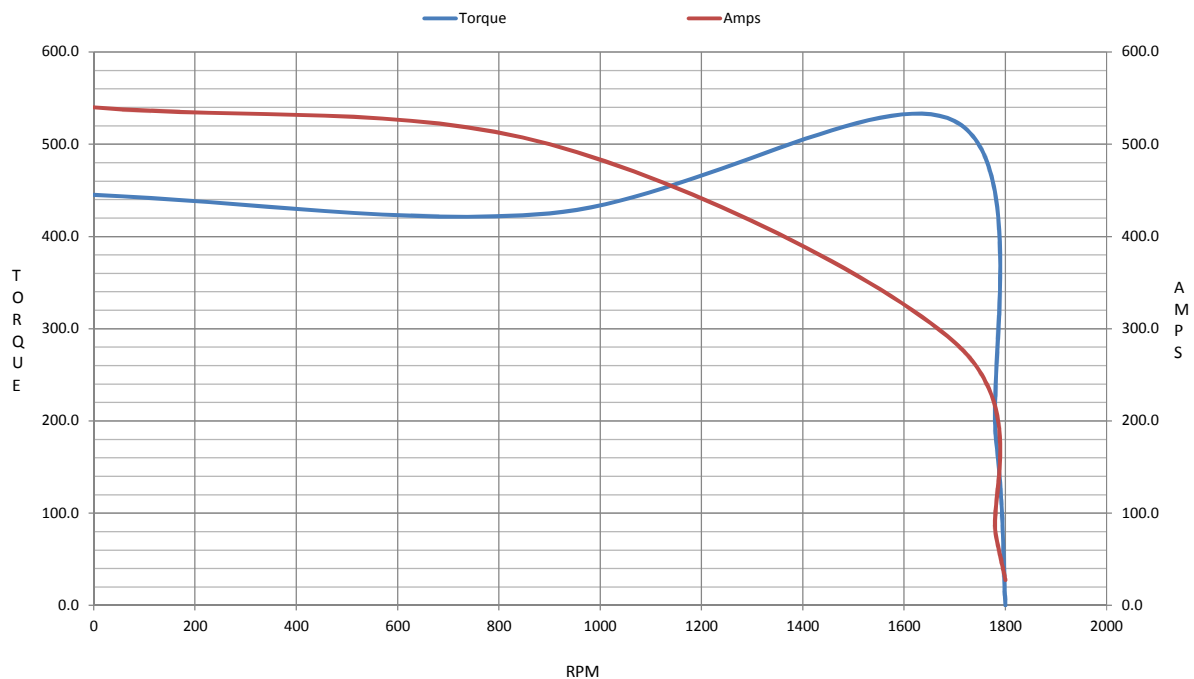
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	27.5	33.0	44.0	57.5	73.5	81.8	90.0	540	
Torque (ft-lb)	0.00	44.0	88.0	132	177	200	222	445	
RPM	1800	1795	1790	1786	1782	1,780	1776	0	
Efficiency (%)		84.0	90.2	91.7	92.4	92.4	92.4		
P.F. (%)	9.5	50.5	71.0	79.5	83.0	83.8	84.5	37.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																							
Speed (RPM)	0	900	1700	1782	1800	HP	60.0																						
Current (Amps)	540	500	285	73.5	27.5	Sync. RPM	1800																						
Torque (ft-lb)	445	425	525	177	0.00	Frame	364																						
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>84</td><td>50</td><td>49</td></tr><tr><td>50</td><td>89</td><td>72</td><td>65</td></tr><tr><td>75</td><td>91</td><td>80</td><td>78</td></tr><tr><td>100</td><td>92</td><td>83</td><td>88</td></tr><tr><td>125</td><td>93</td><td>85</td><td>93</td></tr></tbody></table>	Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	84	50	49	50	89	72	65	75	91	80	78	100	92	83	88	125	93	85	93					
	Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
	25	84	50	49																									
	50	89	72	65																									
	75	91	80	78																									
	100	92	83	88																									
	125	93	85	93																									
	A M P S																												
	V																												
	Hz																												
	A																												
	J																												
	1.0																												
	55 ° C																												
	CONT																												
	40 ° C																												
	1,000 feet																												
14.8 Lb-Ft²																													
T3644131 R8																													
80 dBA																													
CONSTANT 2000:1																													
B-SS515985-1350																													
A-EE7308T																													
Additional Specifications:																													
0																													
0																													
EQUIV CKT (OHMS / PHASE)																													
R1	R2	X1	X2	Xm																									
0.0630	0.0420	0.3380	0.4550	8.8450																									

Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 364THFS8036 DU

WINDING#: T3644131 R8 1

CONN. DIAGRAM: A-EE7308T

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS515985-1350

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60	45	1800	1782	364T	TEFC	J	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	147/73.5	INVERTER ONLY	CONTINUOUS	H4	1.0	40	3300

FULL LOAD EFF: 92.4	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83	3/4 LOAD PF: 79.5	1/2 LOAD PF: 71	91	SQ CAGE INV DUTY	55 / 27.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
177 LB-FT	1080 / 540	445 LB-FT 251	525 LB-FT 297	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	14.8 LB-FT^2	- LB-FT^2	- SEC.	-	965 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.062909	0.042097	0.337722	0.454553	8.8451

RM	ZREF	XR	TD	TD0
454.553	4.73	6	0.028	0.588

*** SUPPLEMENTAL INFORMATION ***

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

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			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 2000:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED
ENCODER: PROVISIONS ONLY
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE

*
N
O
T
E
S
*

NONE	NONE	
NONE FT-LB	NONE V	NONE Hz

DATE: 06/21/2017 07:29:51 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.