

Severe Duty Motors

Model No: 365TTFCD6537

Catalog No: E680A

Severe Duty Motor, 75 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 365T Frame, TEFC

Product Information Packet: Model No: 365TTFCD6537, Catalog No: E680A Severe Duty Motor, 75 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 365T Frame, TEFC

Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	56.0 kW	Voltage	575 V
Speed	1780 r/min	Synchronous RPM	1800 r/min
Service Factor	1.15	Frame	365T
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	95.5 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	68.0 A
Power Factor	87.5	Duty	Continuous
Insulation Class	H	Design Code	B
KVA Code	G	Drive End Bearing Size	6313
Opp Drive End Bearing Size	6213	UL	Listed
CSA	Y	CE	Y
IP Code	55	Number of Speeds	1
Hazardous Location	DIVISION 2 T2B		

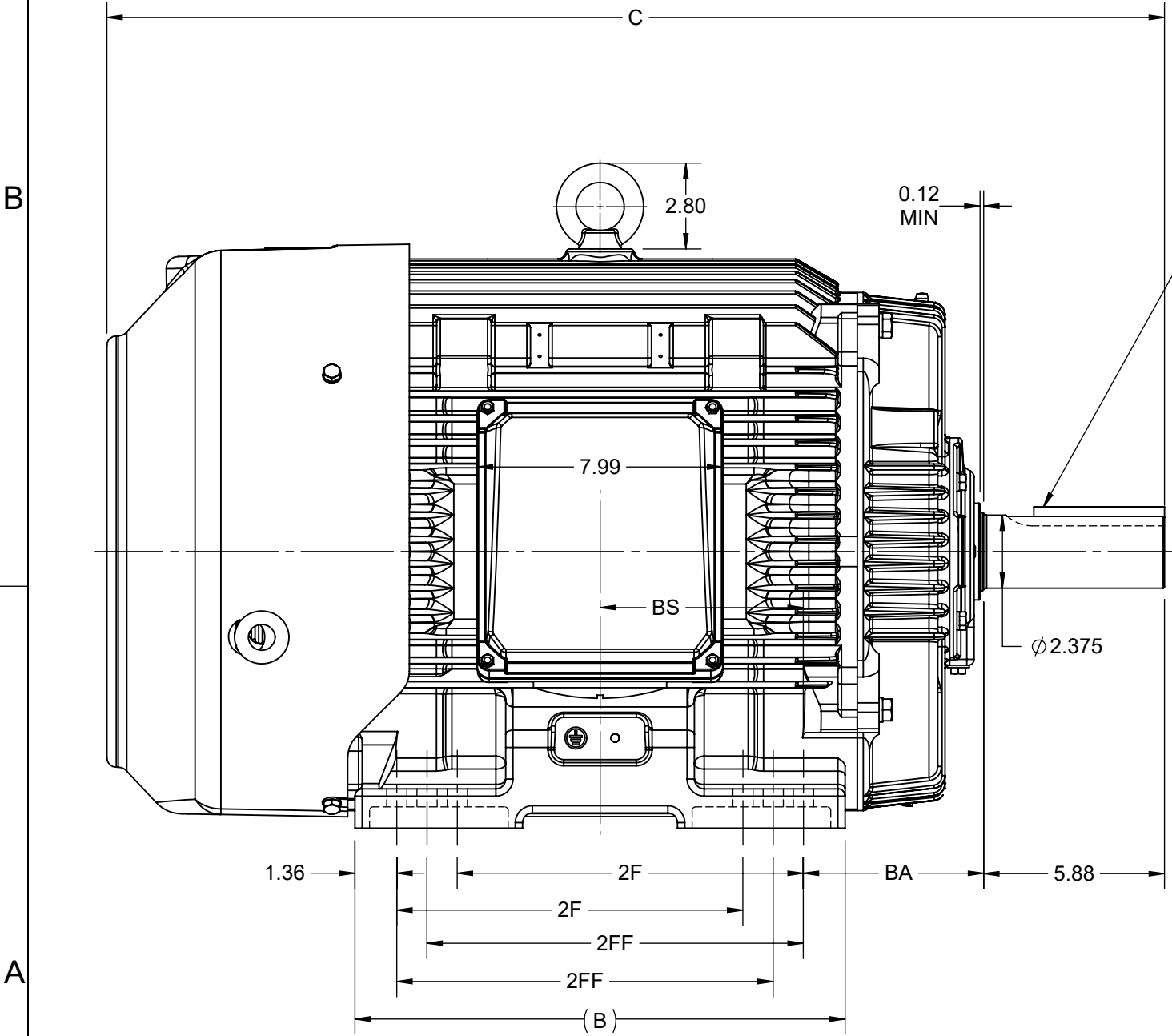
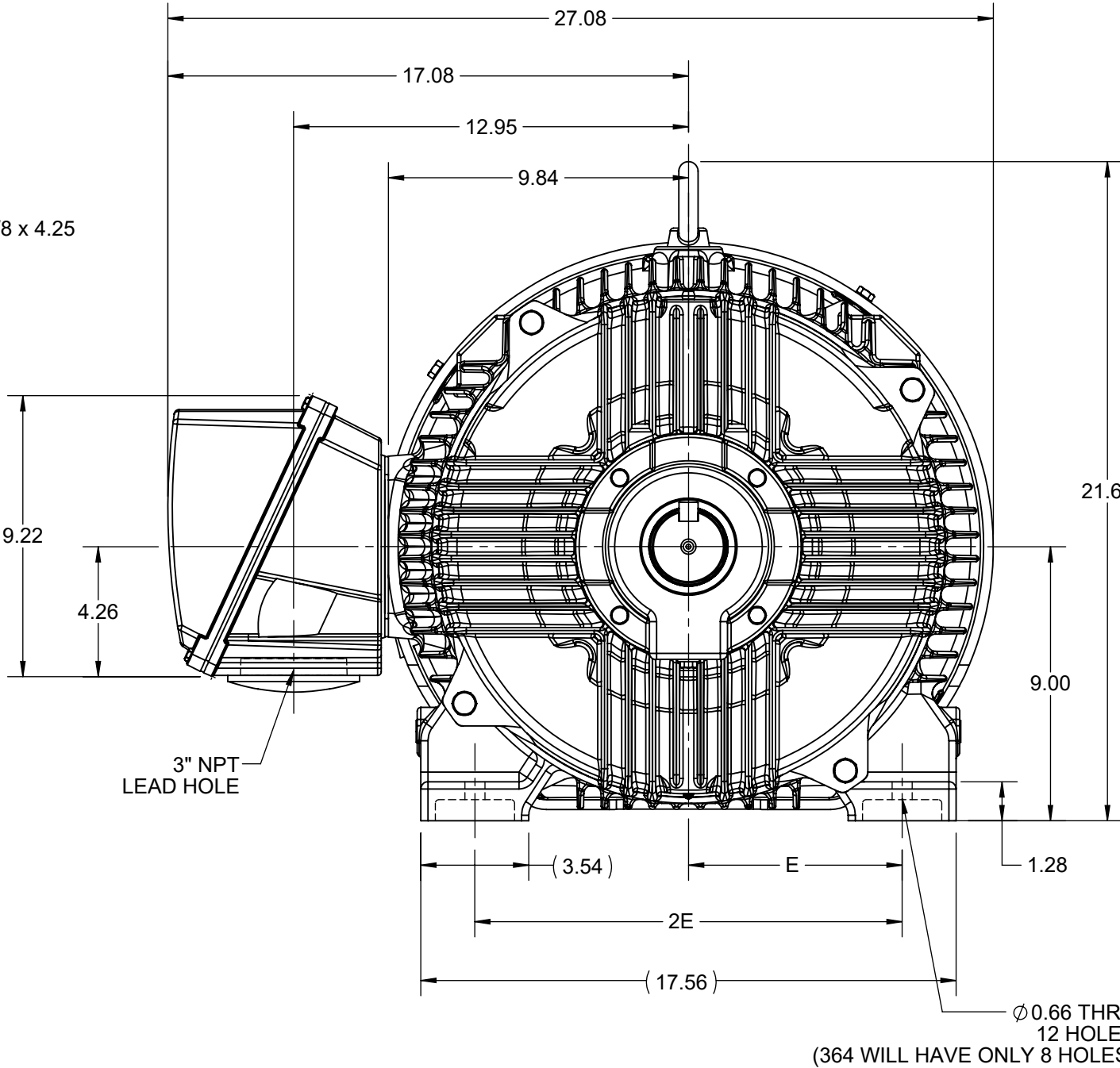
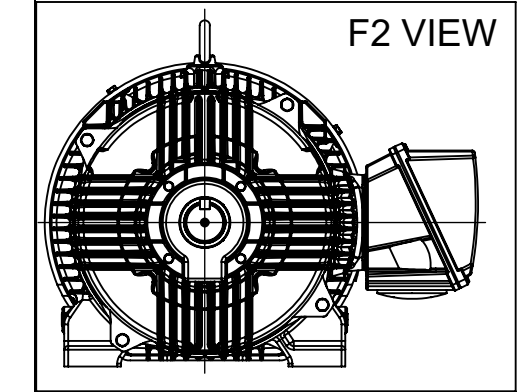
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.076 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	2.375 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 10:1/Variable 20:1

Drawings

Connection Drawing	EE7300	Outline Drawing	SS557662-200
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4					3					2		1	
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME			
100	14.96	33.40	7.00	14.00	-	11.25	5.88	6.12	F1 OR F2	364T			
200	15.94	34.40			11.25	12.25		6.62		364/365T			



DRAWING REVISION D	REVISION BY SB	REV DATE/© DATE 07/24/2025
REQUEST NUMBER CR-0023556	APPROVED BY SBD	DATE 07/24/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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DRAWN BY BISWA	marathon™		
DATE 01/10/2018			
APPROVED BY SBD	DESCRIPTION OUTLINE		
DATE 01/10/2018	364/365T FR-NEMA-SD & IEEE841		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS557662	SHEET 1 OF 1

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

IF MOTOR HAS 9 LEADS

T1(U1) T1(U1) T1(U1) → L1

T2(V1) T2(V1) T2(V1) → L2

T3(W1) T3(W1) T3(W1) → L3

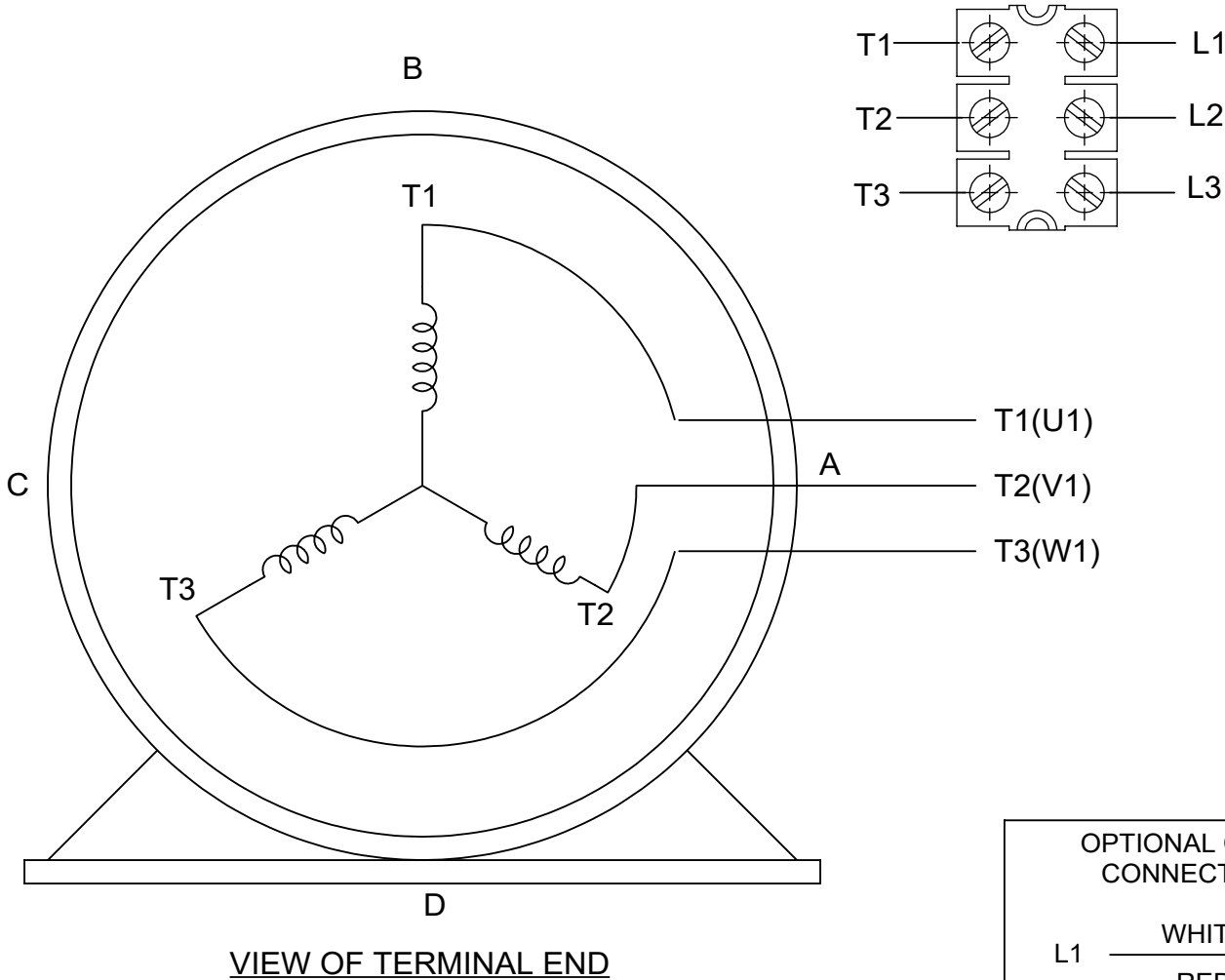
IF MOTOR HAS 6 LEADS

T1(U1) T1(U1) → L1

T2(V1) T2(V1) → L2

T3(W1) T3(W1) → L3

A-9806 DECAL



OPTIONAL CORD CONNECTION	
L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AD	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
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DRAWN BY DA	DATE 03-26-1993
APPROVED BY TB	
DATE 03-26-1993	REFERENCE
THIRD ANGLE PROJECTION	

marathon™		
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1

Data Sheet

Date: 5/6/2020
 Customer: _____
 Attention: _____
 Submitted by: _____

marathon
 Motors

365TTFCD6537

Submittal

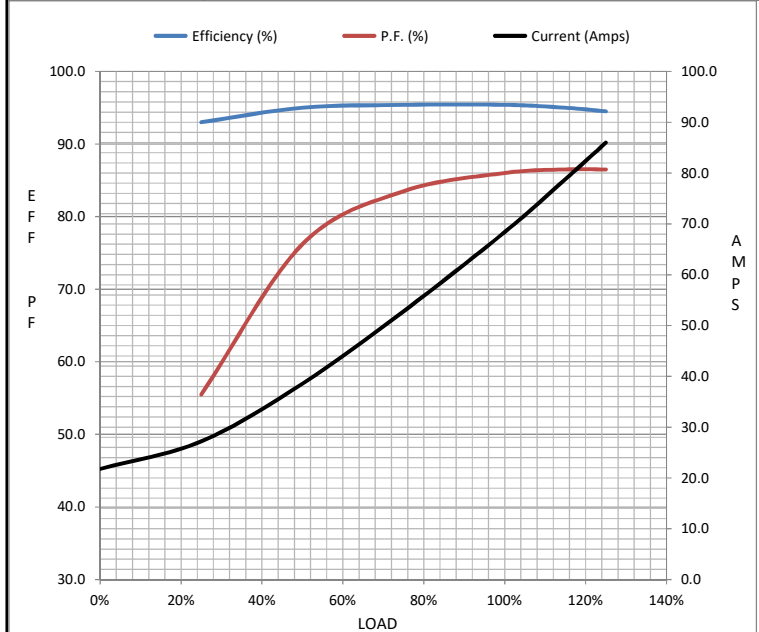
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	21.8	27.2	38.6	52.8	68.4	78.8	86.0	434	
Torque (ft-lb)	0.00	55.0	110	166	221	254	280	464	
RPM	1800	1795	1792	1788	1782	1,780	1775	0	
Efficiency (%)		93.0	95.0	95.4	95.4	95.0	94.5		
P.F. (%)	3.5	55.5	76.2	83.5	86.0	86.5	86.5	34.0	

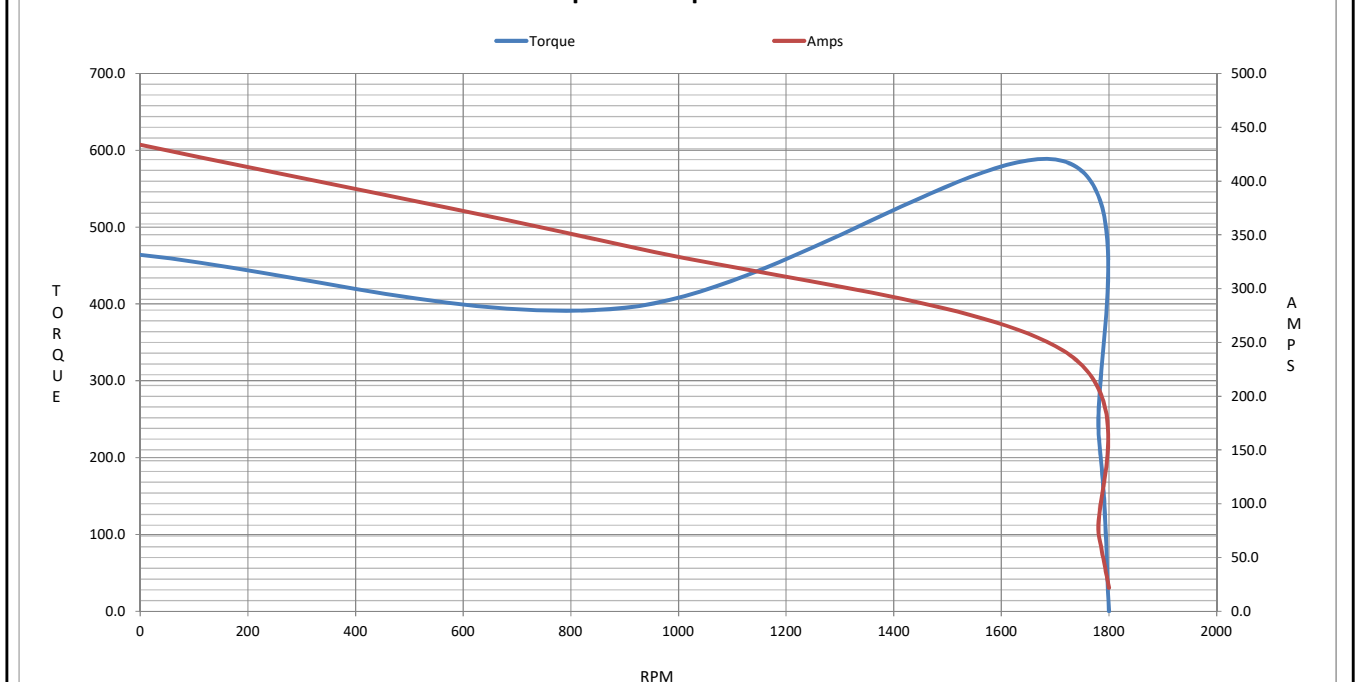
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1715	1782	1800
Current (Amps)	434	340	242	68.4	21.8
Torque (ft-lb)	464	395	586	221	0.00



Information Block				
HP		75.0		
Sync. RPM		1800		
Frame		365		
Enclosure		TEFC		
Construction		TFC		
Voltage		575 V		
Frequency		60 Hz		
Design		B		
LR Code letter		G		
Service Factor		1.15		
Temp Rise @ FL		65 ° C		
Duty		CONT		
Ambient		40 ° C		
Elevation		3,300 feet		
Rotor/Shaft wk²		20.5 Lb-Ft²		
Ref Wdg		HE32254009 NONE		
Sound Pressure @ 1M		72 dBA		
VFD Rating		CONSTANT 2:1/VARIABLE 10:1		
Outline Dwg		SS557662-365T		
Conn. Diag		EE7300		
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0700	0.0500	0.4250	0.6260	14.1750

Speed -Torque Curve





DATA VOLTS: 575

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7300
 REFERENCE MODEL #: 365TTFC6537
 OUTLINE: SS557662-365T
 CAT #: E680A
 WINDING: HE32254009 NONE 3
 MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1800	1782	365T	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	575	68.5	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF	95.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	86.0	3/4 LD PF	83.5	1/2 LD PF	76.2		95.0		

F.L. TORQUE	LR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
221 LB-FT	434	464 LB-FT 210%	586 LB-FT 265%	65

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.
72 dBA	81 dBA	20.5 LB-FT²	500 LB-FT²	20 SEC.	2	1064 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	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE							
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON
6313 6213							

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
0.109375	0.078125	0.6640625	0.978125	22.1484375	0.080	ODE

* N O T E S *	If Inverter equals NONE, contact factory for further information	
	INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE PPR	

PREPARED BY: _____	BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE HZ:
DATE: 5/13/2020	

FORM: 3531 REV_4 2/27/06
 ** Subject to change without notice.