

PRODUCT INFORMATION PACKET

Model No: 810099.00

Catalog No: 810099.00

Encoder Motors, TEBC - Axial, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1185 RPM, 405TC Frame



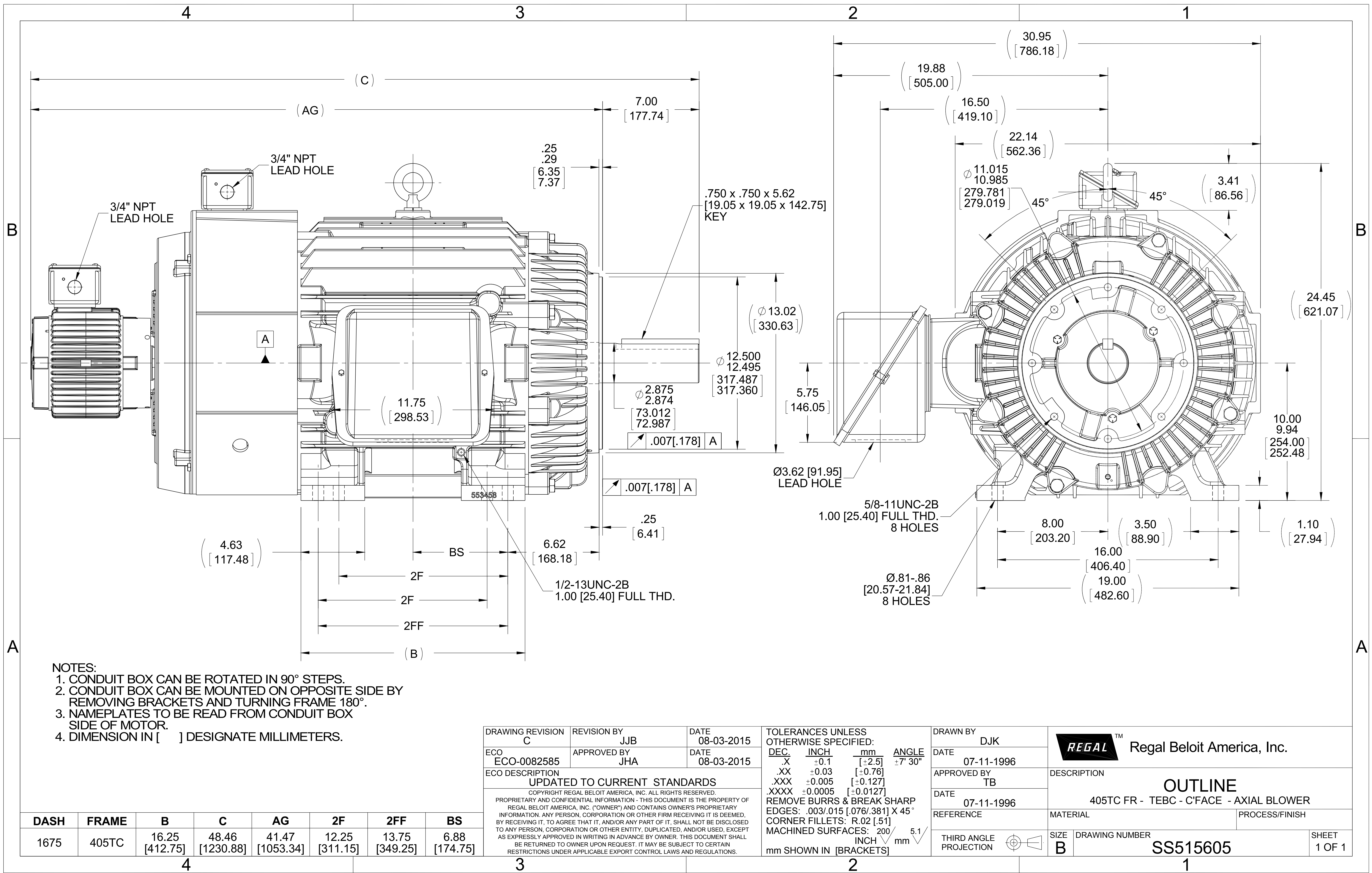
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Nameplate Specifications

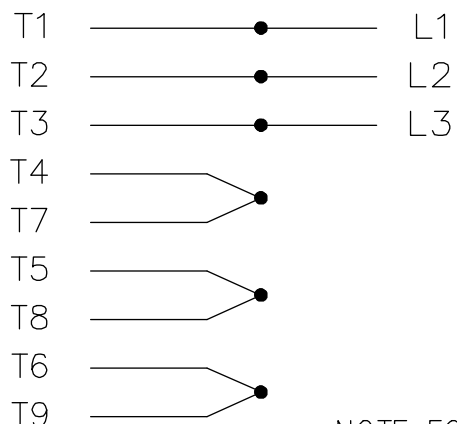
Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	180.0/90.0 A	Speed	1185 rpm
Service Factor	1	Phase	3
Efficiency	94.1 %	Power Factor	83
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	G
Frame	405TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
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	6	Rotation	Reversible
Resistance Main	.086 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	48.46 in
Frame Length	16.75 in	Shaft Diameter	2.875 in
Shaft Extension	7.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	SS515605-1675	Connection Drawing	A-EE7308T-LE

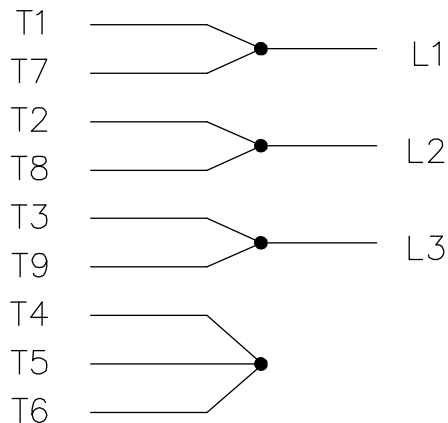


HIGH VOLTAGE



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

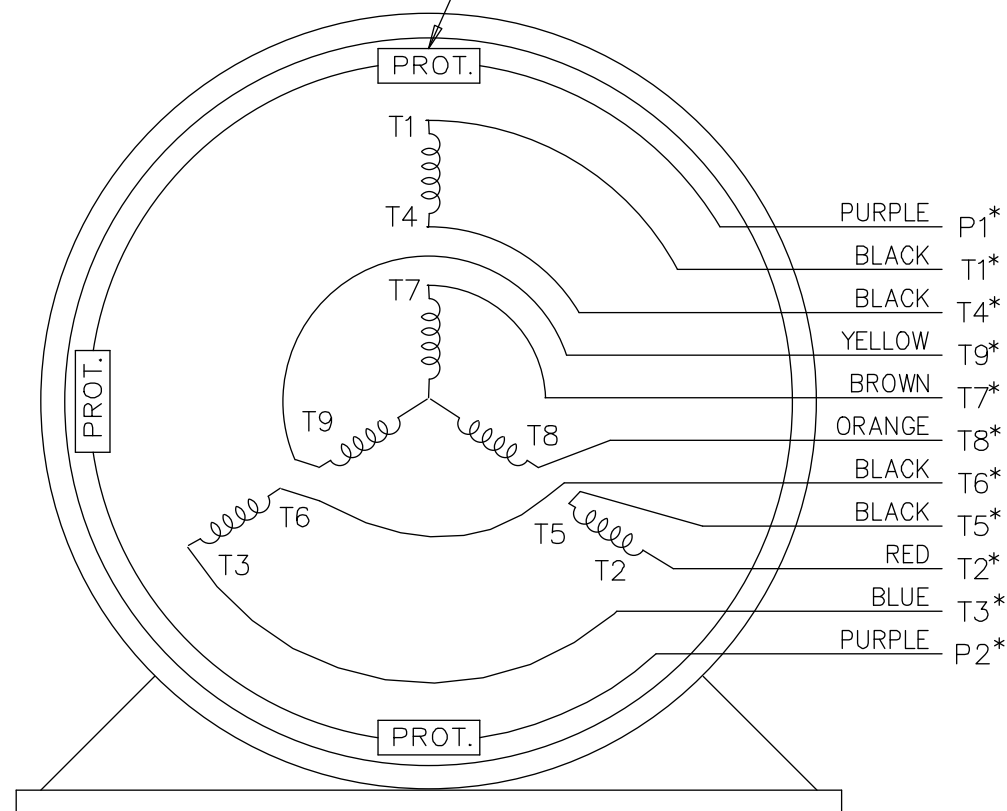
LOW VOLTAGE



THREE PHASE DUAL VOLTAGE MOTOR

EE7308T-LE

THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.

				TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN TJB 05-07-2002		
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD	DEC.	INCHES				CHK ML 05-08-2002		
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.X	±.1				APPD TB 05-08-2002		
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02	TITLE CONNECTION DIAGRAM 3 PHASE – DUAL VOLTAGE MOTOR			SCALE 1=1		
02	REDRAWN	TAT 04-20-2004	ML	.XXX	±.005				REF		
01	NEW DRAWING CN 34708	TJB 05-08-2002	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		CAD FILE EE7308T_LE		SIZE	DRAWING NO.	PAGE OF	REV.
				DIST LB-WP-LE				A	EE7308T-LE		05



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LE
OUTLINE: B-SS518552LE-1675
WINDING: T405642

CAT #: 810099.00

R2 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1200	1185	405TC	TEBC	TBS	G	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	180/90	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF		ELECT. TYPE	
F.L. PF	83.0	3/4 LD PF	79.0	1/2 LD PF	70.5		93.0	SQ CAGE INV DUTY	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
332 LB-FT	535	650 LB-FT 196%	715 LB-FT 215%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
88 dBA	97 dBA	38.0 LB-FT²	0 LB-FT²	0 SEC.	0	1400 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	JE - LEESON (ENAM

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
6316	6313						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
0.056	0.036	0.321	0.452	8.332	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
	ENCODER: NORTHSTAR ST56 NONE	NONE PPR
DATE: 2/1/2018	BRAKE: NONE NONE NONE	
	FT-LB: NA VOLTAGE: NONE	
	UL: Y-(LEESON UL REC)	

Data Sheet

Date: 2/1/2018

810099.00



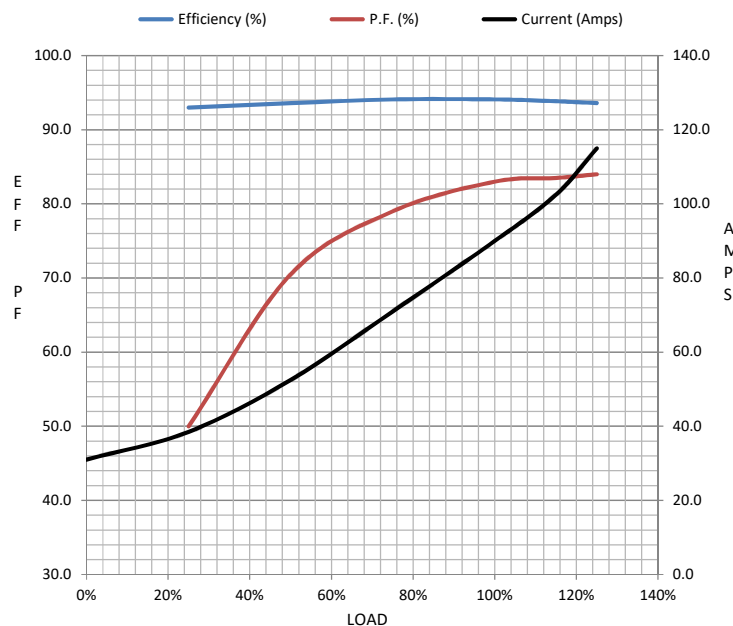
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	31.0	38.5	52.5	71.0	90.0	103	115	535	
Torque (ft-lb)	0.00	92.5	165	248	332	374	415	650	
RPM	1200	1195	1192	1188	1185	1,181	1175	0	
Efficiency (%)		93.0	93.6	94.1	94.1	93.9	93.6		
P.F. (%)	3.0	50.0	70.5	79.0	83.0	83.5	84.0	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	1105	1185	1200	HP	75.0
Current (Amps)	535	450	300	90.0	31.0	Sync. RPM	1200
Torque (ft-lb)	650	525	715	332	0.00	Frame	405



Frame	405			
Enclosure	TEBC			
Construction	TBS			
Voltage	230/460	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	1,000	feet		
Rotor/Shaft wk²	38.0	Lb-Ft²		
Ref Wdg	T405642 R2			
Sound Pressure @ 1M	88	dBA		
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS518552LE-1675			
Conn. Diag	A-EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0560	0.0360	0.3210	0.4520	8.3320

Speed - Torque Curve

