

PRODUCT INFORMATION PACKET

Model No: 449TTFS36649
Catalog No: U884A
250,1800,TEFC,449T,3/60/460
Cooling Tower



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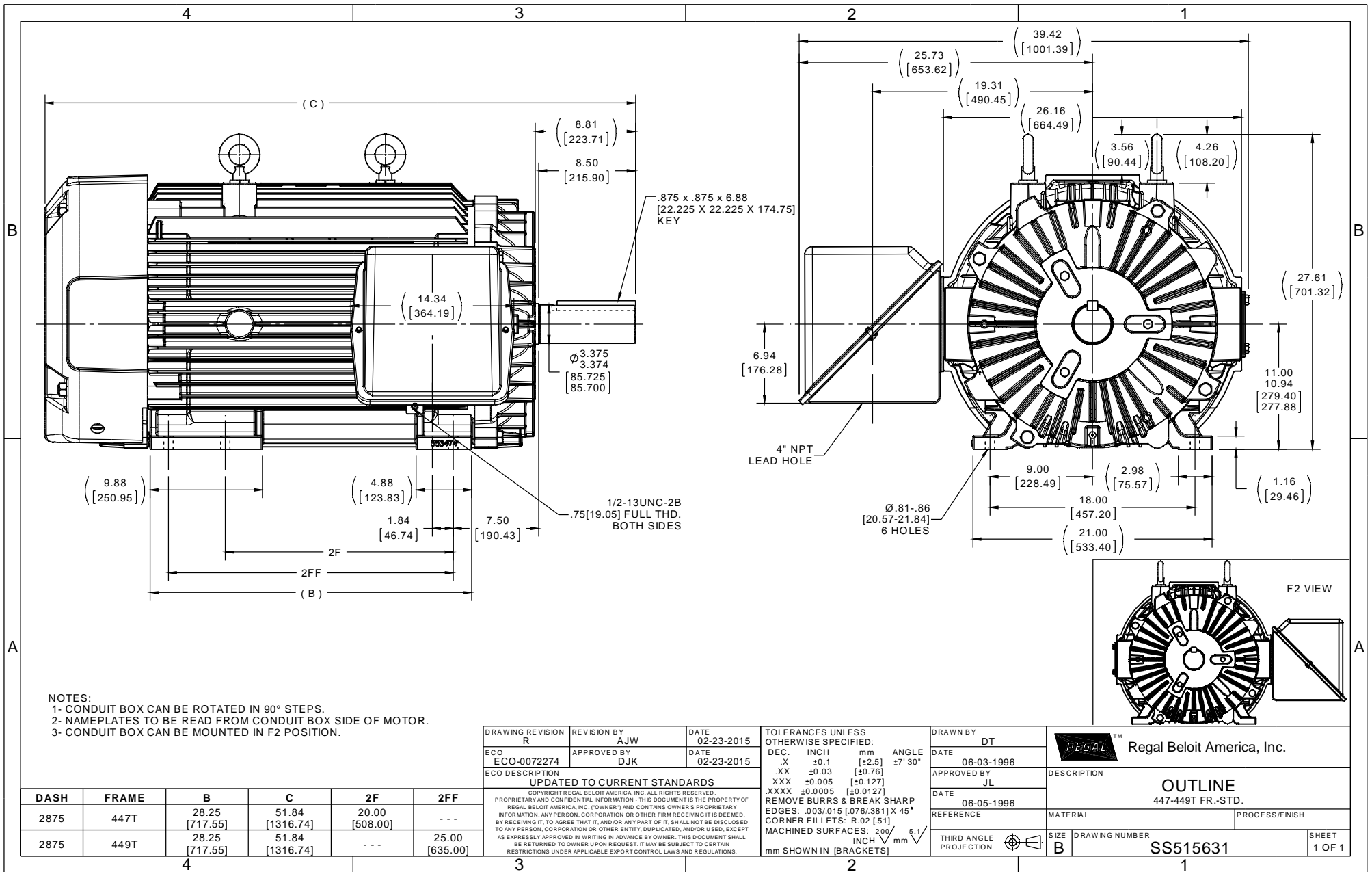
Nameplate Specifications

Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	460 V
Current	285.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	96.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	447/449T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6319
Opp Drive End Bearing Size	6318	UL	Recognized
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	51.84 in	Frame Length	28.77 in
Shaft Diameter	3.375 in	Shaft Extension	8.81 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS515631-2875	Connection Diagram	A-EE7300U

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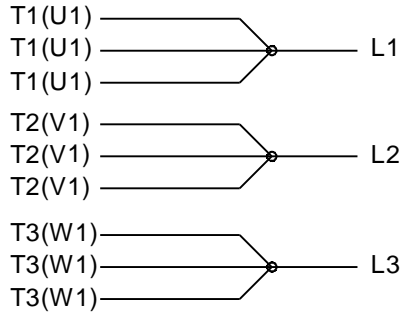
NOTES:
 1- CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2- NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 3- CONDUIT BOX CAN BE MOUNTED IN F2 POSITION.

DASH	FRAME	B	C	2F	2FF
2875	447T	28.25 [717.55]	51.84 [1316.74]	20.00 [508.00]	---
2875	449T	28.25 [717.55]	51.84 [1316.74]	---	25.00 [635.00]

DRAWING REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED:
R	AJW	02-23-2015	DEC. INCH. mm ANGLE
ECO-0072274	DJK	02-23-2015	.X ±0.1 [±2.5] 27° 30'
ECO DESCRIPTION			.XX ±0.03 [±0.76]
UPDATED TO CURRENT STANDARDS			XXX ±0.005 [±0.127]
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.			XXXX ±0.0005 [±0.0127]
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			CORNER FILLETS: R.02 [51]
			MACHINED SURFACES: 200 / INCH mm 5.1
			mm SHOWN IN [BRACKETS]

DRAWN BY	DT	REGAL™	Regal Beloit America, Inc.
DATE	06-03-1996	DESCRIPTION	
APPROVED BY	JL		
DATE	06-05-1996	OUTLINE 447-449T FR.-STD.	
REFERENCE			
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER	SS515631
		PROCESS/FINISH	SHEET 1 OF 1

IF MOTOR HAS 9 LEADS

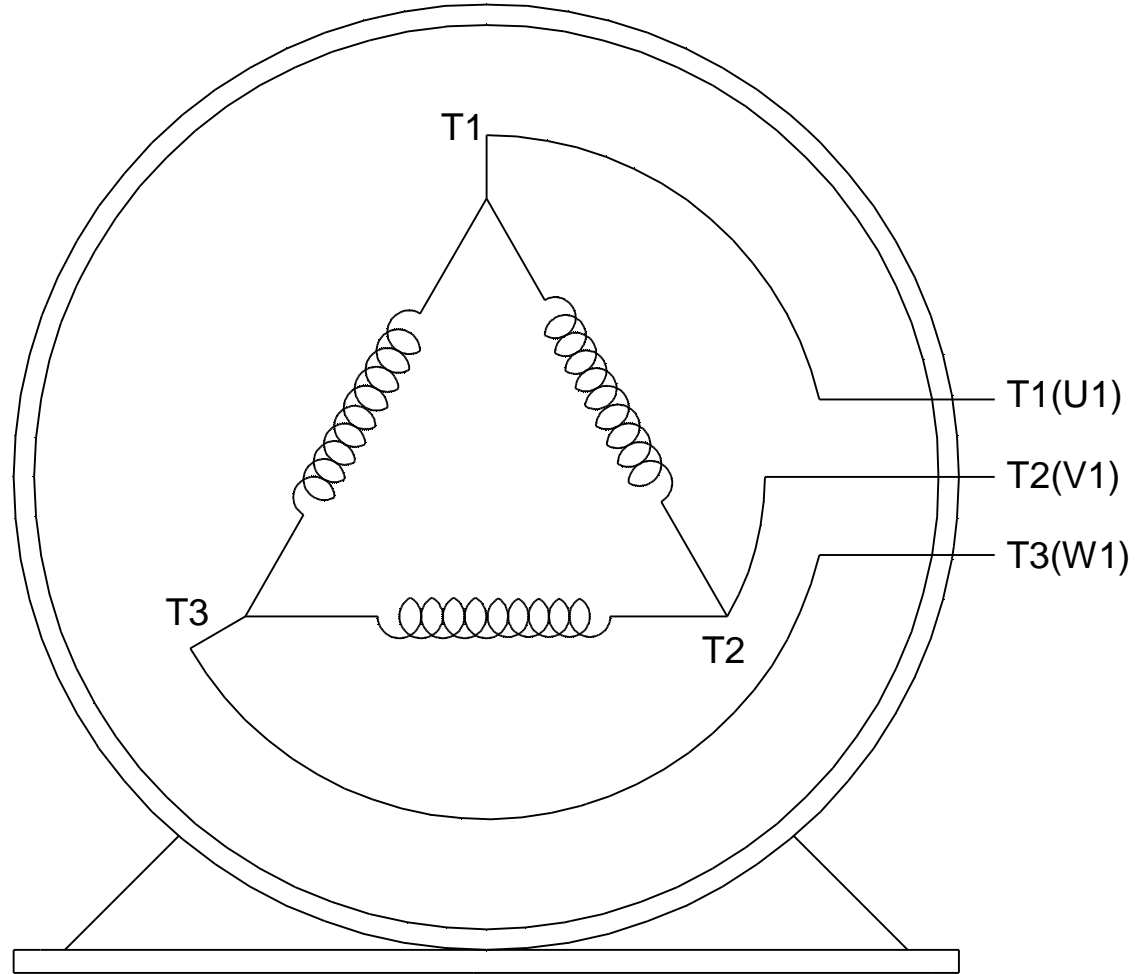


IF MOTOR HAS 6 LEADS



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:	DRAWN BY DRS	Regal Beloit America, Inc.																					
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015	<table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7' 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table>	<u>DEC.</u>			<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>	.X	±0.1	[±2.5]	±7' 30"	.XX	±0.02	[±0.51]		.XXX	±0.005	[±0.127]		.XXXX	±0.0005	[±0.0127]		DATE 09-27-1996
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.XXXX	±0.0005	[±0.0127]																								
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK	DATE 09-30-1996	MATERIAL	PROCESS/FINISH																				
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 $\sqrt{\text{INCH}}$ 5.1 $\sqrt{\text{mm}}$	REFERENCE	SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1																			
			mm SHOWN IN [BRACKETS]	THIRD ANGLE PROJECTION																						



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:
 ORDER #: A-EE7300U
 REFERENCE MODEL #: 4491TTS36649
 CONN. DIAGRAM: B-SS515631-2875
 CAT #: U884A
 OUTLINE: 1449446 NONE 5 CUSTOMER PART #:
 WINDING: 1449446 NONE 5 MOUNTING: F1/F2 CAPABLE
 SPEED:
 TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	1800	1785	447/449T	TEFC	TEN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	285&275	ACROSS-THE LINE	CONT	F	1.15	40	3300
	F.L. EFF	96.5	3/4 LD EFF	96.5	1/2 LD EFF	95.8	GTD EFF	ELECT. TYPE	
	F.L. PF	86.0	3/4 LD PF	83.5	1/2 LD PF	77.0	96.2	SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
736 LB-FT	1.825	1.450 LB-FT	1.825 LB-FT	248%
@ 3 FT. DBA	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME
80 DBA	89 DBA	81.0 LB-FT ²	2000 LB-FT ²	1 SEC.
				START/SHOUR
				1
				MOTOR WGT
				2700 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	UM SEVERE	NONE	NO	NONE	BLUE (EPOXY)
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL 6319	ODE BALL 6318	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON

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
0.007	0.007	0.092	0.13	2.972	0.080	ODE

* N	O	T	E	S	INVERTER TORQUE:	NONE
					INV. HP SPEED RANGE:	NONE
					ENCODER:	NONE
					BRAKE:	NONE
					FT-LB:	NA
					VOLTAGE:	NONE
					UL: V/INS. CONST UL REC	
					HZ:	

PREPARED BY: FAREEDA DUDEKULA
 DATE: 9/10/2018
 FORM: 3531 REV 4 2/27/06

Data Sheet

Date: 9/10/2018

449TFS3649

Customer:
Attention:



Submital

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

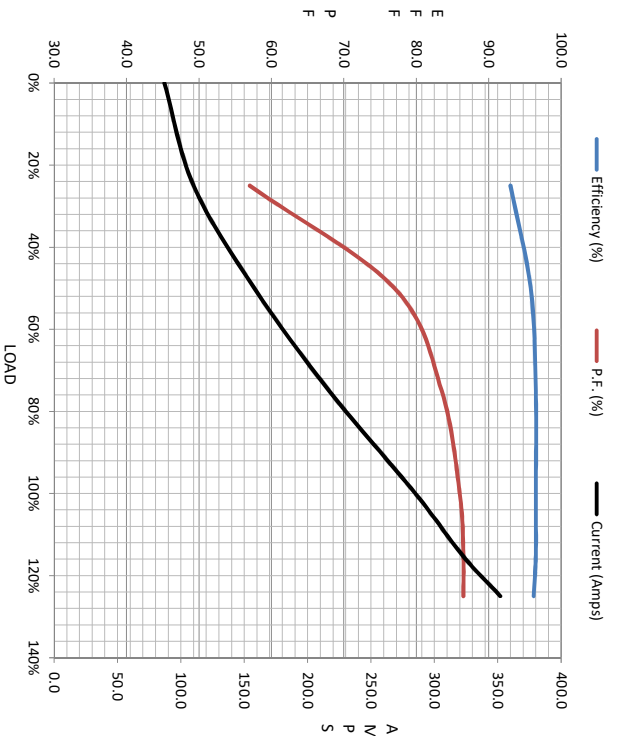
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	87.0	110	158	217	285	322	352	1,825
Torque (ft-lb)	0.00	133	366	550	736	846	920	1,450
RPM	1800	1796	1794	1790	1785	1,782	1780	0
Efficiency (%)		93.0	93.8	96.5	96.5	96.5	96.2	
P.F. (%)	4.5	57.0	77.0	83.5	86.0	86.5	86.5	31.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,825	1,725	1,100	285	87.0
Torque (ft-lb)	1,450	1,250	1,825	736	0.00

Information Block

HP	250.0			
Sync. RPM	1800			
Frame	449182TFC080			
Enclosure	TEFC			
Construction	TFN			
Voltage	460#380 V			
Frequency	60 HZ			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Motor/Shaft wk ²	81.0 Lb-Ft ²			
Ret Wdg	T449446 NONE			
Sound Pressure @ 1M	80 DBA			
VFD Rating	NONE			
Outline Dwg	B-SS515631-2875			
Conn. Diag	A-EE7300U			
Additional Specifications:				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0070	0.0820	0.1300	2.9720



Speed -Torque Curve

