

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 449TTTS16539

Catalog No: U1884

XRI®-SD Severe Duty Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM,
449TV Frame, TEAO



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RegalRexnord

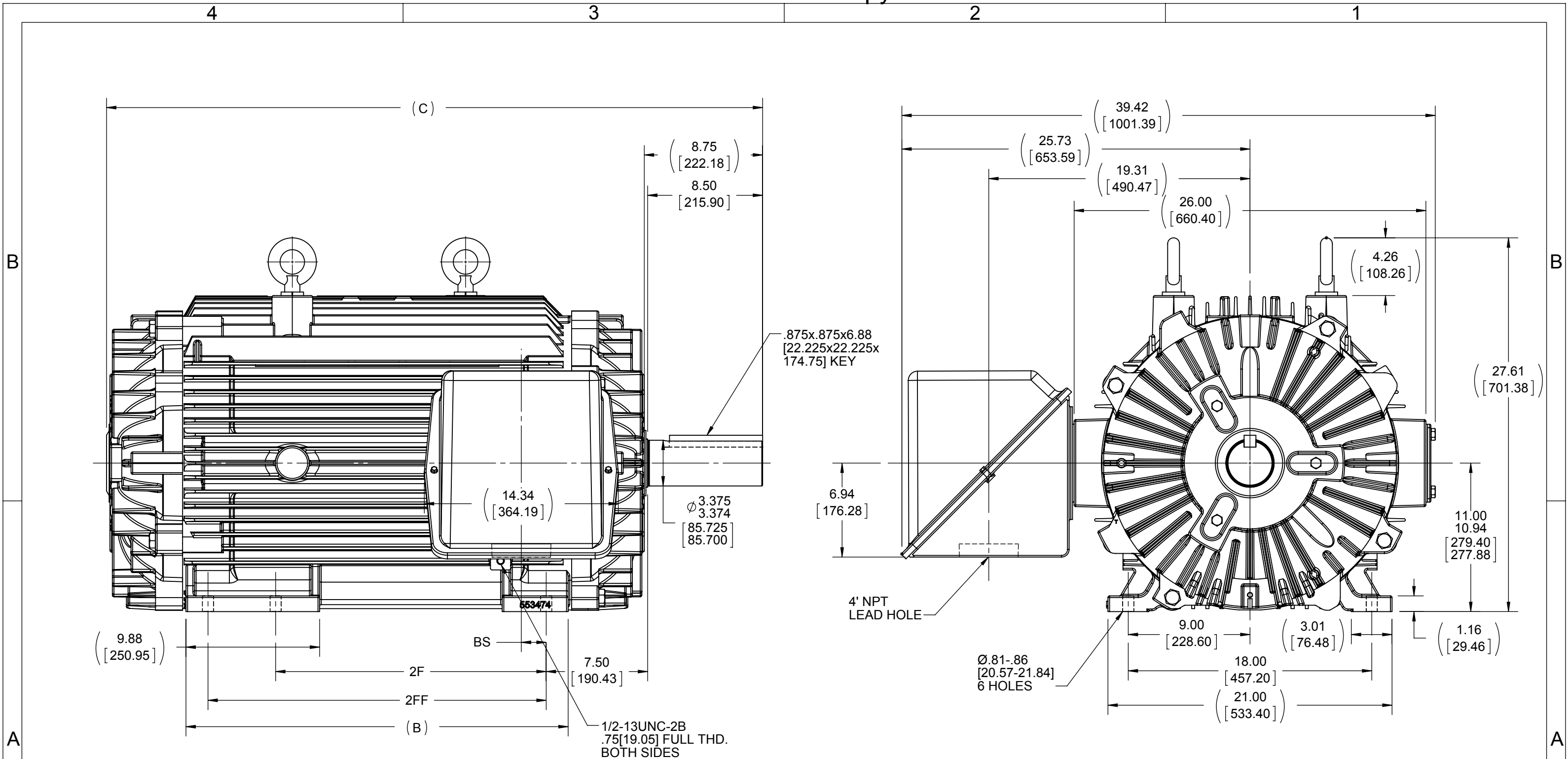


Nameplate Specifications

Phase	3	Output HP	250 & 200 Hp
Output KW	187.0 & 149.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	449TV	Enclosure	Totally Enclosed Air Over
Thermal Protection	No Protection	Efficiency	96.5 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	285 & 275 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
UL	Recognized	CSA	Y
CE	N	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0107 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Up Or Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	48.49 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 20:1		
Outline Drawing	B-SS556279-2875	Connection Drawing	A-EE7300BH



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

DASH	FRAME	B	C	2F	2FF	BS
2875	447T	28.25 [717.55]	48.49 [1231.76]	20.00 [508.00]	-----	1.84 [46.74]
2875	449T	28.25 [717.55]	48.49 [1231.76]	-----	25.00 [635.00]	1.84 [46.74]

DRAWING REVISION	REVISION BY	DATE
A		
ECO	APPROVED BY	DATE
ECO-0061608		
ECO DESCRIPTION		
NEW OUTLINE		
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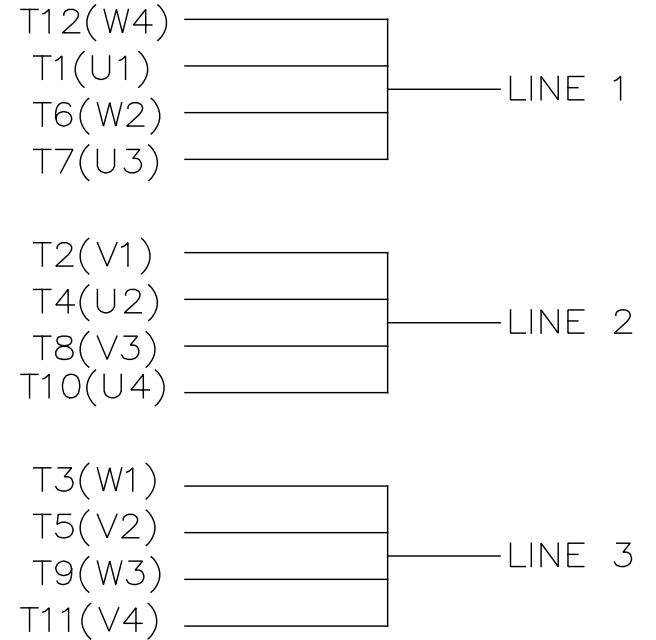
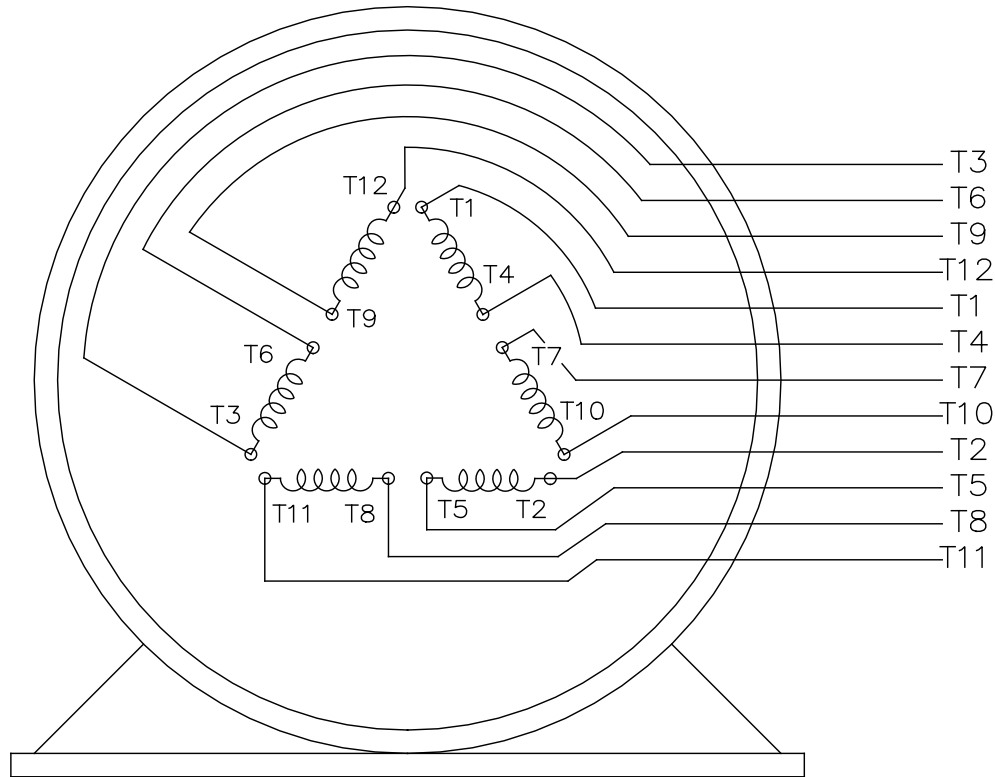
TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [0.51] MACHINED SURFACES: 125 INCH 3.2 mm SHOWN IN [BRACKETS]

DRAWN BY	DATE
AJW	10-02-2014
APPROVED BY	DATE
DJK	10-02-2014
REFERENCE	DATE
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.	
DESCRIPTION	
OUTLINE	
447/9T FR.-TEAO-SHAFT COVER	
MATERIAL	PROCESS/FINISH
SIZE	DRAWING NUMBER
B	SS556279
SHEET	1 OF 1



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005				
				DEC.	INCHES		CHK	ML	02-11-2005		
				.X	±.1		APPD	GK	02-11-2005		
				.XX	±.02	TITLE CONNECTION DIAGRAM		SCALE			
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX ±.005	12 LEAD- SINGLE VOLTAGE		REF			
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	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 02-11-2005	CAD FILE ee7300bh	SIZE A	DRAWING NO. EE7300BH	PAGE OF	REV. C
						DIST LB					

CERTIFICATION DATA SHEET

Model#: 449TTTS16539 AA
CONN. DIAGRAM: A-EE7300BH
OUTLINE: B-SS556279-2875

WINDING#: T449446 R14 5
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
250&200	187&149	1800	1785&1485	447/449TV	TEAO	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	285&275	PWS & YDRUN OR INV	CONTINUOUS	F1	1.15/1.15	40	3300

FULL LOAD EFF: 96.5&95.8	3/4 LOAD EFF: 96.5	1/2 LOAD EFF: 95.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&86	3/4 LOAD PF: 83.5	1/2 LOAD PF: 77	96.2	SQ CAGE INV RATED	87

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
736 LB-FT	1825	1450 LB-FT 197	1825 LB-FT 248	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	81 LB-FT^2	2000 LB-FT^2	25 SEC.	1	2600 LBS.

***** SUPPLEMENTAL INFORMATION *****

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6318						

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

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INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 07:29:48 AM
 FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 15-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



449TTTS16539

Submittal

Data @ **460 V**

Motor Load Data

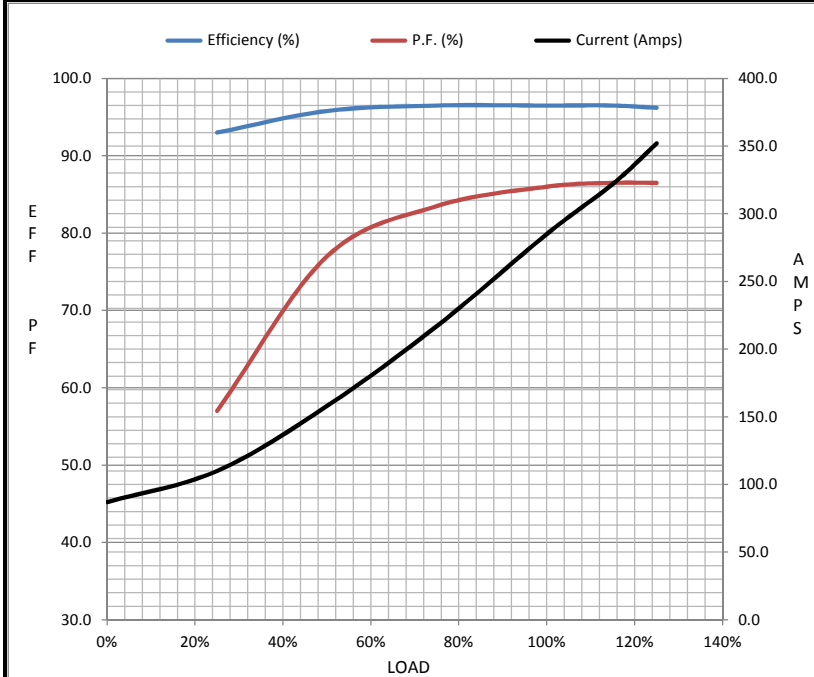
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	87.0	110	158	217	285	322	352	1,825
Torque (ft-lb)	0.00	183	366	550	736	846	920	1,450
RPM	1800	1796	1794	1790	1785	1,782	1780	0
Efficiency (%)		93.0	95.8	96.5	96.5	96.5	96.2	
P.F. (%)	4.5	57.0	77.0	83.5	86.0	86.5	86.5	31.0

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	449			
Enclosure	TEAO			
Construction	TTN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	0 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	81.0 Lb-Ft ²			
Ref Wdg	T449446 R14			
Sound Pressure @ 1M	999 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS556279-2875			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0070	0.0920	0.1300	2.9720



Speed - Torque Curve

