

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 364TSTDS4024

Catalog No: U523

75 HP Fire Pump Motor, 3 phase, 3600 RPM, 200/400 V, 364TS Frame, ODP
Fire Pump Motors



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E

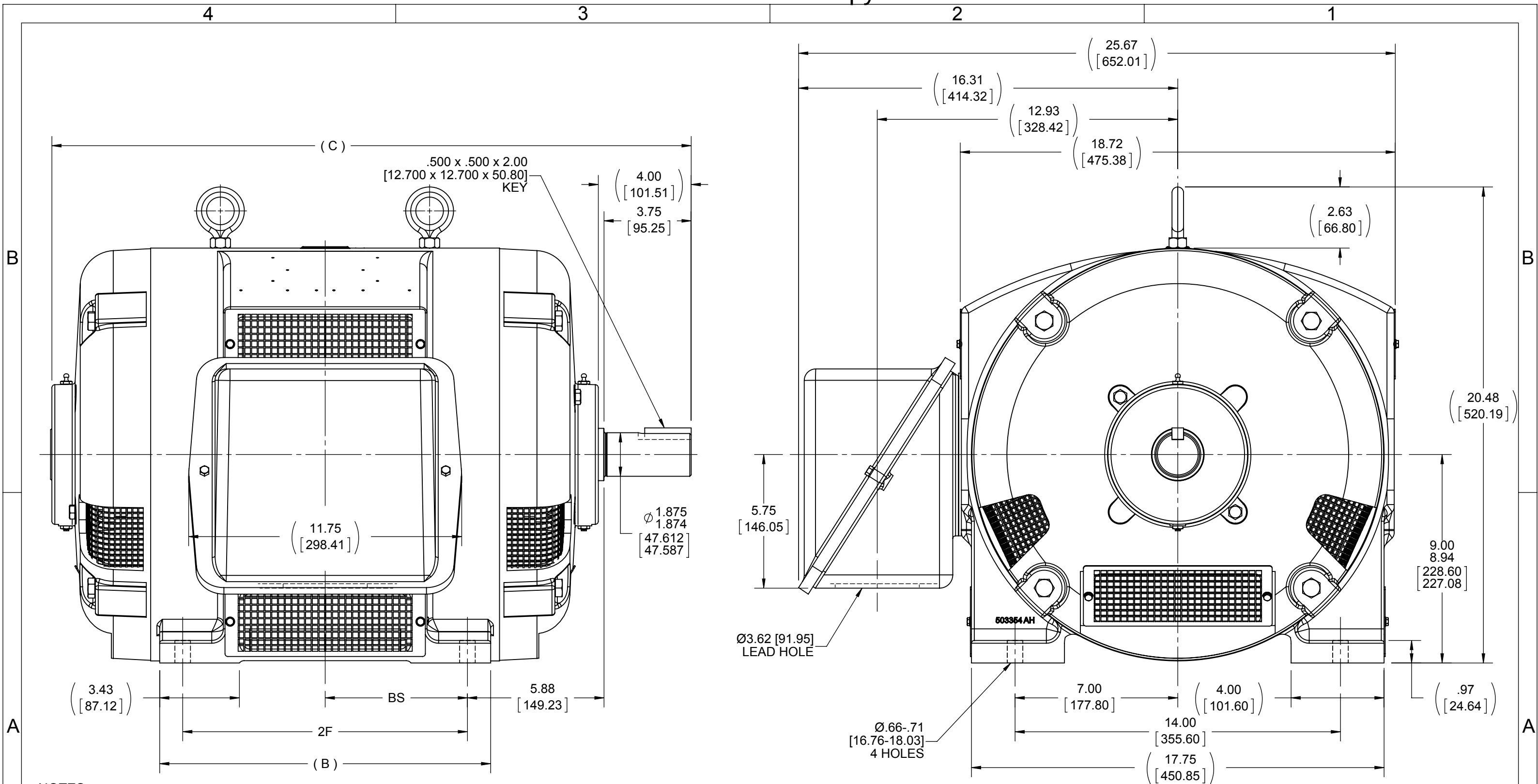
RegalRexnord

Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	200/400 V
Current	211.0/105.0 A	Speed	3560 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Power Factor	82
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	F
Frame	364TS	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	50 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	No	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.34 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	26.50 in
Frame Length	14.00 in	Shaft Diameter	1.875 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS509966-1400	Connection Drawing	A-EE7308AA



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
4. DIMENSION IN [] DESIGNATE MILLIMETERS.

DASH	FRAME	B	C	2F	BS
1400	364TS	13.25 [336.55]	26.50 [673.10]	11.25 [285.75]	5.62 [142.75]
1500	365TS	14.25 [361.95]	27.50 [698.50]	12.25 [311.15]	6.12 [155.45]

DRAWING REVISION A	REVISION BY JJB	DATE 06-19-2014
ECO ECO-0053523	APPROVED BY TDB	DATE 06-19-2014
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS 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.		

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 [51] MACHINED SURFACES: 125 INCH 3.2 mm			
mm SHOWN IN [BRACKETS]			

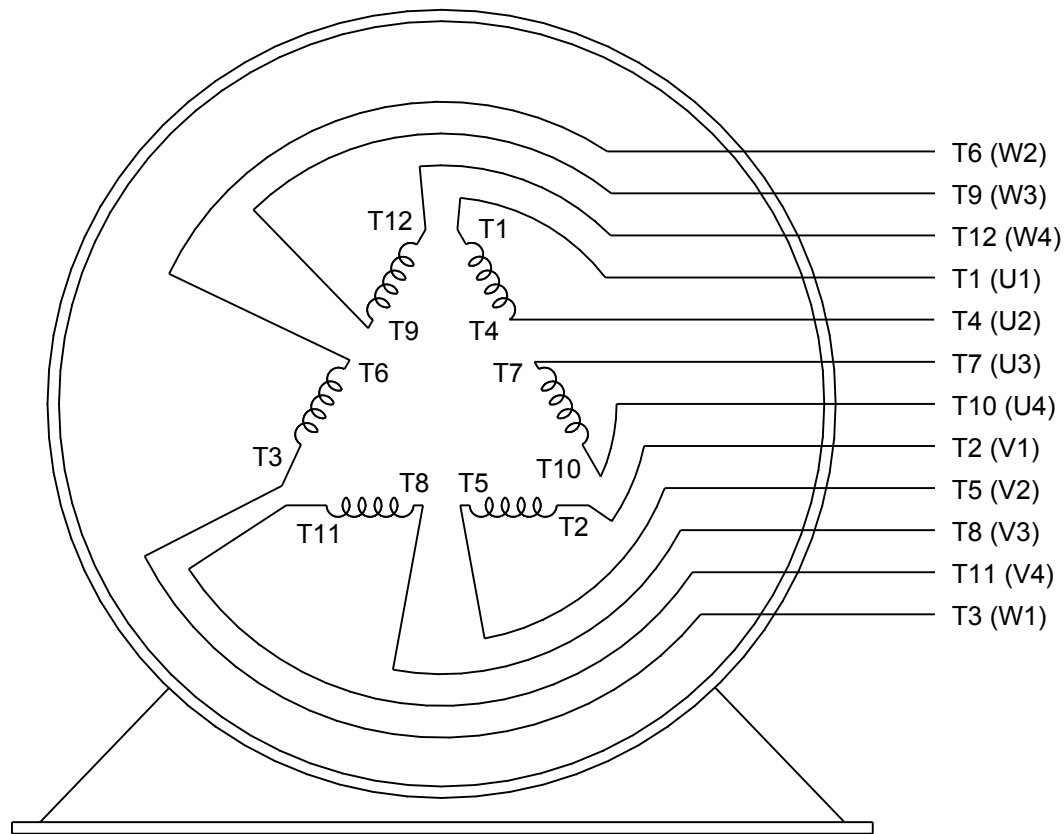
DRAWN BY TLB	 Regal Beloit America, Inc.		
DATE 02-04-1988			
APPROVED BY GK	DESCRIPTION OUTLINE		
DATE 02-04-1988	360TS & US FR - DR PR - SCREENED		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS509966	SHEET 1 OF 1



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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.		

DRAWN BY LZ	THIRD ANGLE PROJECTION
DATE 01-12-1994	
APPROVED BY GK	
DATE 01-14-1994	
REFERENCE	



Regal Beloit America, Inc.

DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø-2/1 DELTA-12 LEADS

MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7308AA
SHEET 1 OF 1	

CERTIFICATION DATA SHEET

Model#: 364TSTDS4024 AR
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS509966-1400

WINDING#: T364263 NONE 4
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75	56	3600	3560	364TS	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200/400	211/105	PWS(LV ONLY) & YDRUN	CONTINUOUS	B1	1.15	50	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82	3/4 LOAD PF: 79	1/2 LOAD PF: 71	91.7	SQ CAGE IND RUN	71.3 / 35.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
111 LB-FT	1150 / 575	175 LB-FT 158	260 LB-FT 234	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	6.1 LB-FT^2	52 LB-FT^2	15 SEC.	2	600 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6312	6312	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

* N O T E S *	INVERTER TORQUE: NONE			
	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 07:39:49 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



364TSTD54024

Submittal

Data @ 400 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	35.7	44.9	61.0	81.7	105	121	131	575	
Torque (ft-lb)	0.00	27.5	55.0	83.0	111	128	140	175	
RPM	3600	3588	3578	3565	3560	3,550	3540	0	
Efficiency (%)		88.5	92.4	93.0	93.0	93.0	92.4		
P.F. (%)	6.5	51.0	71.0	79.0	82.0	82.5	83.0	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																																								
Speed (RPM)	0	1800	3375	3560	3600	HP	75.0																																							
Current (Amps)	575	518	374	105	35.7	Sync. RPM	3600																																							
Torque (ft-lb)	175	165	260	111	0.00	Frame	364																																							
Efficiency (%) P.F. (%) Current (Amps) <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0%</td><td></td><td></td><td>35.7</td></tr><tr><td>20%</td><td>88.5</td><td>40.0</td><td>40.0</td></tr><tr><td>40%</td><td>91.5</td><td>75.0</td><td>51.8</td></tr><tr><td>60%</td><td>93.0</td><td>90.0</td><td>75.0</td></tr><tr><td>80%</td><td>93.0</td><td>100.0</td><td>105.0</td></tr><tr><td>100%</td><td>93.0</td><td>105.0</td><td>175.0</td></tr><tr><td>120%</td><td>92.5</td><td>108.0</td><td>260.0</td></tr><tr><td>125%</td><td></td><td></td><td>337.5</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%			35.7	20%	88.5	40.0	40.0	40%	91.5	75.0	51.8	60%	93.0	90.0	75.0	80%	93.0	100.0	105.0	100%	93.0	105.0	175.0	120%	92.5	108.0	260.0	125%			337.5	Construction	TDS			
						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)																																					
						0%			35.7																																					
						20%	88.5	40.0	40.0																																					
						40%	91.5	75.0	51.8																																					
						60%	93.0	90.0	75.0																																					
						80%	93.0	100.0	105.0																																					
						100%	93.0	105.0	175.0																																					
						120%	92.5	108.0	260.0																																					
						125%			337.5																																					
						Voltage	200/400 V																																							
						Frequency	60 Hz																																							
						Design	B																																							
						LR Code letter	F																																							
						Service Factor	1.15																																							
						Temp Rise @ FL	45 ° C																																							
						Duty	CONT																																							
Ambient	40 ° C																																													
Elevation	1,000 feet																																													
Rotor/Shaft wk ²	6.1 Lb-Ft ²																																													
Ref Wdg	T364263 NONE																																													
Sound Pressure @ 1M	80 dBA																																													
VFD Rating	NONE																																													
Outline Dwg	B-SS509966-1400																																													
Conn. Diag	A-EE7308AA																																													
Additional Specifications:																																														
0																																														
0																																														
EQUIV CKT (OHMS / PHASE)																																														
R1	R2	X1	X2	Xm																																										
0.0460	0.0300	0.2760	0.2470	6.6880																																										

Speed -Torque Curve

