

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 365TSTDS4025

Catalog No: U526

Fire Pump Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 365TS Frame,
DP



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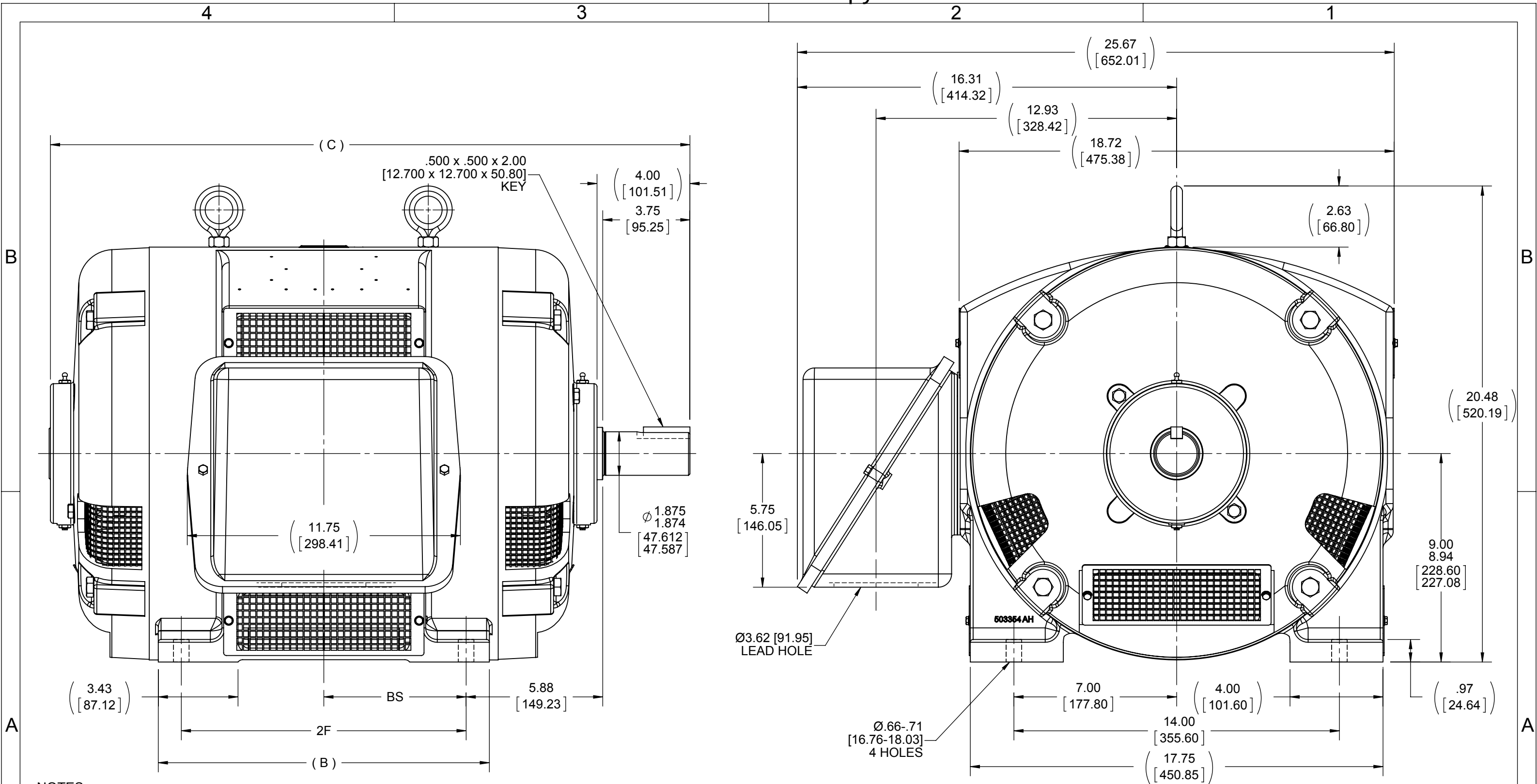
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 190/380 V
Speed	3550 & 2960 rpm	Service Factor	1.15 & 1.15
Frame	365TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 91.7 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	240/120 & 216/108 A	Power Factor	83.5
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	F
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	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.064 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	27.50 in
Frame Length	15.00 in	Shaft Diameter	1.875 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7308AA	Outline Drawing	B-SS509966-1500



- 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.

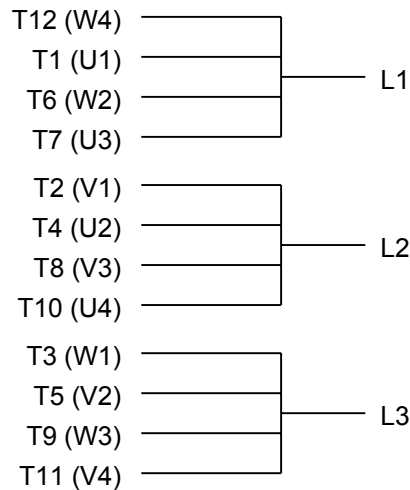
DASH	FRAME	B	C	2F	BS
1400	364TS	13.25 [336.55]	26.50 [673.10]	11.25 [285.75]	5.62 [142.75]
1500	365TS	14.25 [361.95]	27.50 [698.50]	12.25 [311.15]	6.12 [155.45]

DRAWING REVISION A	REVISION BY JJB	DATE 06-19-2014
ECO ECO-0053523	APPROVED BY TDB	DATE 06-19-2014
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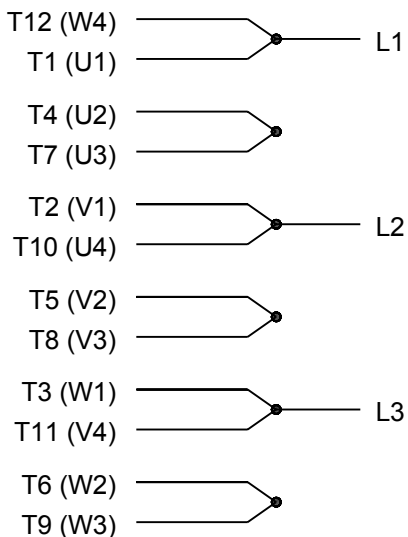
TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	±0.1	[±2.5]
.XX	±0.01	[±0.25]
.XXX	±0.005	[±0.127]
.XXXX	±0.0005	[±0.0127]
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [51] MACHINED SURFACES: 125 INCH 3.2 mm		
mm SHOWN IN [BRACKETS]		

DRAWN BY TLB	DATE 02-04-1988
APPROVED BY GK	DATE 02-04-1988
REFERENCE	THIRD ANGLE PROJECTION

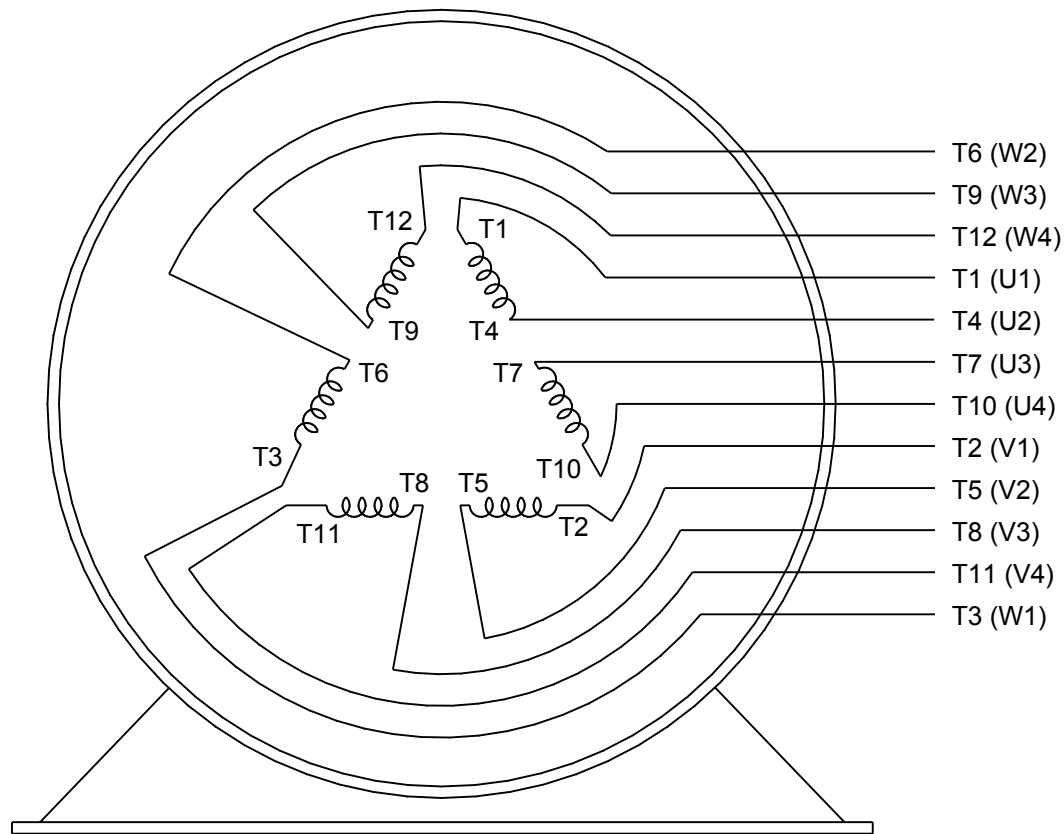
REGAL™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 360TS & US FR - DR PR - SCREENED	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS509966
SHEET 1 OF 1	



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

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#: 365TSTDS4025 AV
 CONN. DIAGRAM: A-EE7308AA
 OUTLINE: B-SS509966-1500

WINDING#: T365256 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75&56	3600	3550&2960	365TS	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	240/120&216/ 108	WYE START DELTA RUN	CONTINUOU S	B3	1.15/1.15	50	3300

FULL LOAD EFF: 93&91.7	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83.5&84	3/4 LOAD PF: 82	1/2 LOAD PF: 77	91.7	SQ CAGE IND RUN	68 / 34

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	1220 / 610	215 LB-FT 145	315 LB-FT 213	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	6.9 LB-FT^2	58 LB-FT^2	12 SEC.	2	725 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

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

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DATE: 06/21/2017 08:53:44 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



365TSTD4025

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	34.0	45.5	65.5	91.0	120	138	150	610	
Torque (ft-lb)	0.00	36.5	73.5	110	148	170	185	215	
RPM	3600	3588	3575	3565	3550	3,540	3530	0	
Efficiency (%)		90.2	92.4	93.0	93.0	92.4	91.7		
P.F. (%)	8.0	57.0	77.0	82.0	83.5	84.0	84.5	32.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																																				
Speed (RPM)	0	1800	3425	3550	3600	HP	100.0																																			
Current (Amps)	610	525	375	120	34.0	Sync. RPM	3600																																			
Torque (ft-lb)	215	185	315	148	0.00	Frame	365																																			
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>45.0</td></tr><tr><td>20%</td><td>90.0</td><td>57.0</td><td>48.0</td></tr><tr><td>40%</td><td>91.0</td><td>75.0</td><td>55.0</td></tr><tr><td>60%</td><td>92.0</td><td>80.0</td><td>65.0</td></tr><tr><td>80%</td><td>92.5</td><td>83.0</td><td>75.0</td></tr><tr><td>100%</td><td>92.5</td><td>84.0</td><td>85.0</td></tr><tr><td>120%</td><td>92.0</td><td>84.5</td><td>95.0</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%			45.0	20%	90.0	57.0	48.0	40%	91.0	75.0	55.0	60%	92.0	80.0	65.0	80%	92.5	83.0	75.0	100%	92.5	84.0	85.0	120%	92.0	84.5	95.0	Enclosure	DP			
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						Construction	TDS																																			
						Voltage	30/460#190/381V																																			
						Frequency	60 Hz																																			
						Design	B																																			
						LR Code letter	F																																			
						Service Factor	1.15																																			
						Temp Rise @ FL	55 °C																																			
						Duty	CONT																																			
Ambient	40 °C																																									
Elevation	1,000 feet																																									
Rotor/Shaft wk ²	6.9 Lb-Ft ²																																									
Ref Wdg	T365256 NONE																																									
Sound Pressure @ 1M	80 dBA																																									
VFD Rating	NONE																																									
Outline Dwg	B-SS509966-1500																																									
Conn. Diag	A-EE7308AA																																									
Additional Specifications:																																										
0																																										
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EQUIV CKT (OHMS / PHASE)																																										
R1	R2	X1	X2	Xm																																						
0.0430	0.0320	0.2770	0.2980	8.7760																																						

Speed -Torque Curve

