

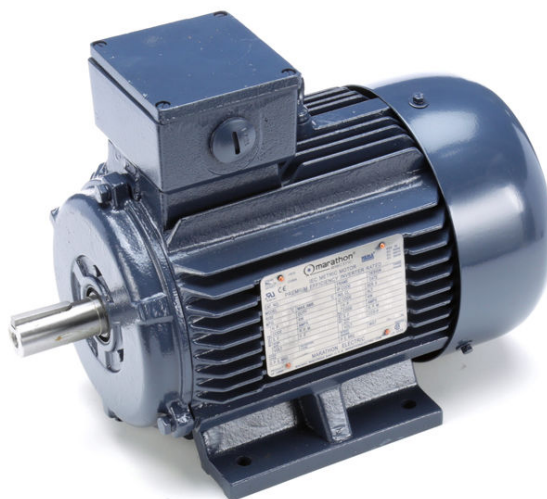
PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 112MTFC6536

Catalog No: R325A

Globetrotter® IEC Cast Iron Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,
1800 & 1500 RPM, 112M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord

Nameplate Specifications

Phase	3	Output HP	5.50 & 4 Hp
Output KW	4.1 & 3.0 kW	Voltage	230/460 & 200/400 V
Speed	1755 & 1460 rpm	Service Factor	1.15 & 1.15
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	14/7 & 12.6/6.3 A	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

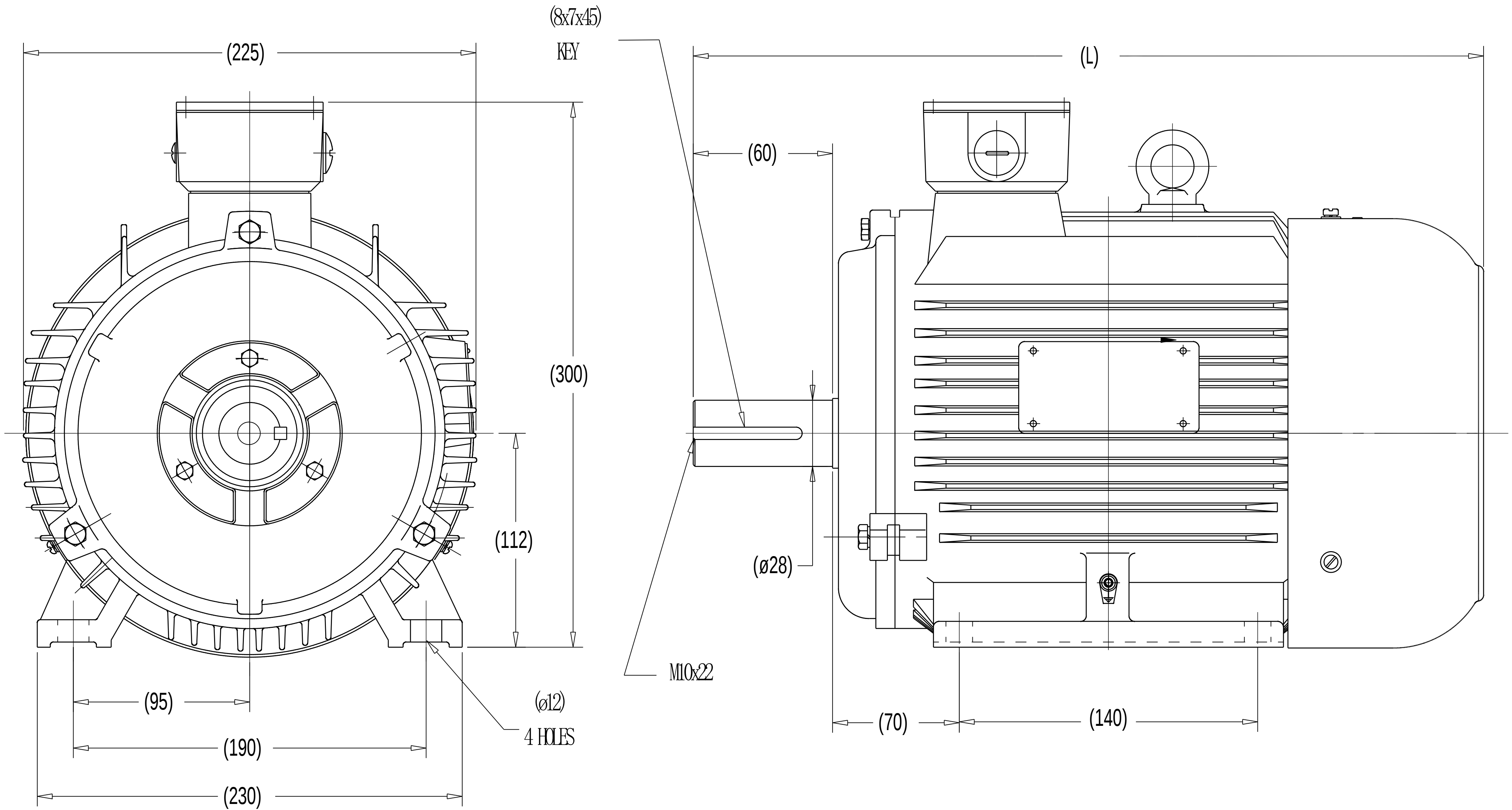
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.754 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	18.42 in
Shaft Diameter	1.111 in	Shaft Extension	2.36 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 20:1
Connection Drawing	005010.01	Outline Drawing	SS622368-193307

B

B

A

A



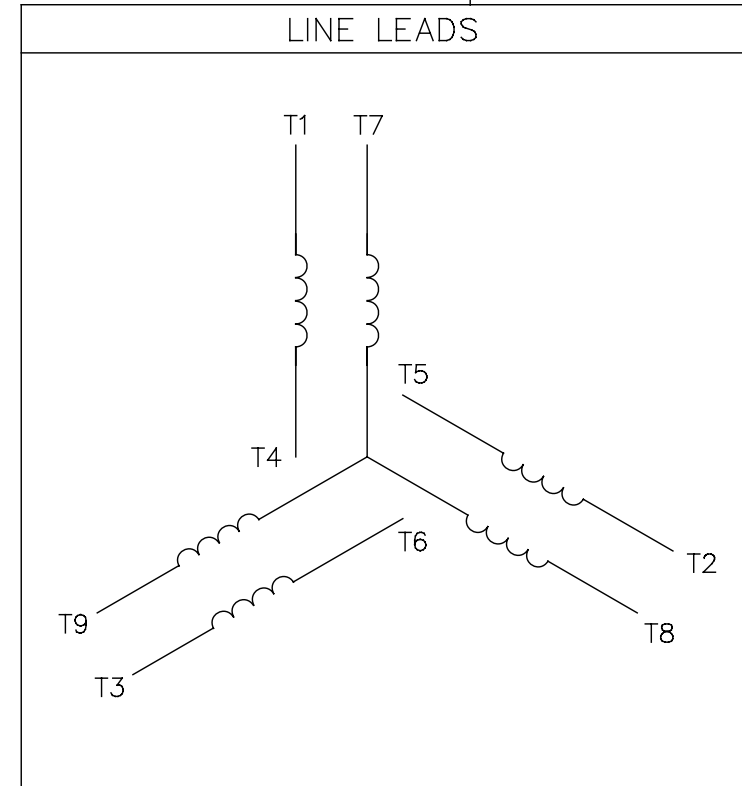
PART NO.	FRAME	L
193306.60	C20-112M-2	410
193307.60	C20-112M1-4	
193302.60	C20-112M1-6	

DRAWING NOT TO SCALE

DRAWING REVISION F	REVISION BY W. JOERGER	DATE 08-20-2016	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±7° 30" .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 5.1 mm SHOWN IN [BRACKETS] INCH mm		DRAWN BY MOL		 Regal Beloit America, Inc.			
ECO ECO-0108079	APPROVED BY E. HEIL	DATE 08-20-2016			DATE 04-12-2012	APPROVED BY SB			DESCRIPTION OUTLINE IEC 112M - 2,4,6 - TEFC	
ECO DESCRIPTION 193307.60 FRAME WAS C20-112M1-6 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.					DATE 04-12-2012	REFERENCE	MATERIAL	PROCESS/FINISH		
					THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER SS622368		SHEET 1 OF 1

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RDW 04/12/02		
				DEC.	INCHES		CHK		
				.X	±.1		APPD		
				.XX	±.01		SCALE 1=1		
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR	REF FIG.2-51		
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005		MAT'L. DECAL - 004014	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	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 04/12/02		CAD FILE 00501001		SIZE	DRAWING NO.	REV.
			DIST BRF-NLV				A	005010-01	A

CERTIFICATION DATA SHEET

Model#: 112MTFC6536 A
 CONN. DIAGRAM: 005010.01
 OUTLINE: SS622368

WINDING#: T08704015 NONE 3
 ASSEMBLY: F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5 1/2&4	4.1&2.98	1800	1755&1460	112M	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/ 400	14/7&12.6/6.3	LINE OR INVERTER	CONTINUOU S	F2	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&88.5	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 89.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81&77	3/4 LOAD PF: 76	1/2 LOAD PF: 65	87.5	SQ CAGE INV RATED	6.2 / 3.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
16.5 LB-FT	102 / 51	34.5 LB-FT 210	51 LB-FT 310	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	- LB-FT^2	- LB-FT^2	20 SEC.	2	- LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6206	6205	POLYREX EM	STANDARD IEC	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: CONSTANT 20:1
 INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
 NONE NONE
 NONE NONE PPR

BRAKE: NONE NONE
 NONE P/N NONE
 NONE NONE
 NONE FT-LB NONE V NONE Hz

*
N
O
T
E
S
*

DATE: 06/22/2017 04:31:06 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 1/3/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



112MTFC6536

Submittal

Data @ 460 V

Motor Load Data

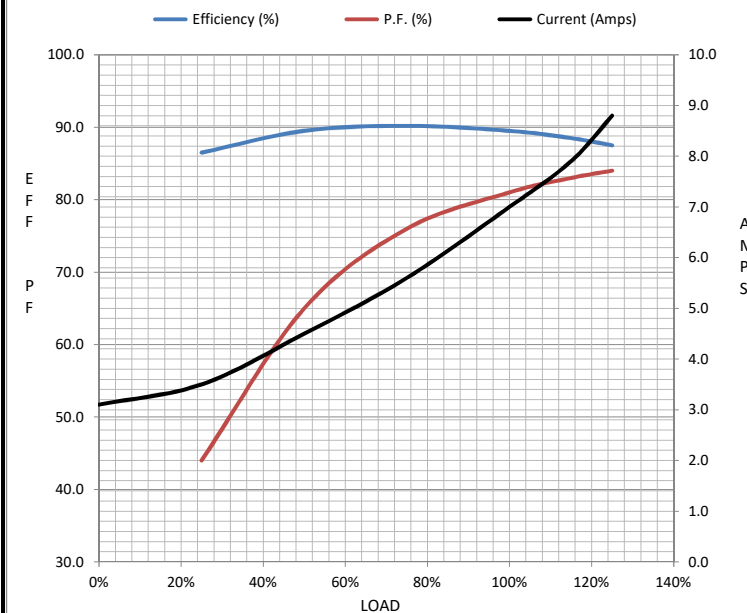
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.1	3.5	4.5	5.6	7.0	7.9	8.8	51.0	
Torque (ft-lb)	0.00	4.0	8.2	12.3	16.5	19.2	20.8	34.5	
RPM	1800	1790	1780	1765	1755	1,745	1738	0	
Efficiency (%)		86.5	89.5	90.2	89.5	88.5	87.5		
P.F. (%)	5.5	44.0	65.0	76.0	81.0	83.0	84.0	43.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1550	1755	1800
Current (Amps)	51.0	48.0	30.5	7.0	3.1
Torque (ft-lb)	34.5	30.0	51.0	16.5	0.00

Information Block

HP	5.5			
Sync. RPM	1800			
Frame	112			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#200/400		V	
Frequency	60		Hz	
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	55		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	3300		feet	
Rotor/Shaft wk²	0.00		Lb-Ft²	
Ref Wdg	T08704015 NONE			
Sound Pressure @ 1M	65		dBA	
VFD Rating	CONSTANT 20:1			
Outline Dwg	SS622368			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed -Torque Curve

