

PRODUCT INFORMATION PACKET

Model No: LM34114

Catalog No: LM34114

Automotive Duty Motor, 7.50 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 215UC Frame, TEFC



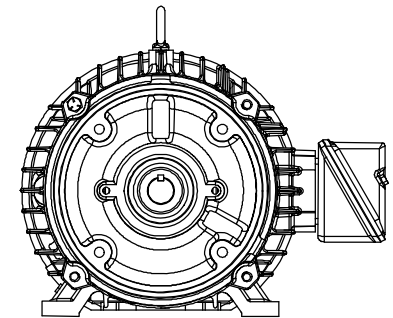
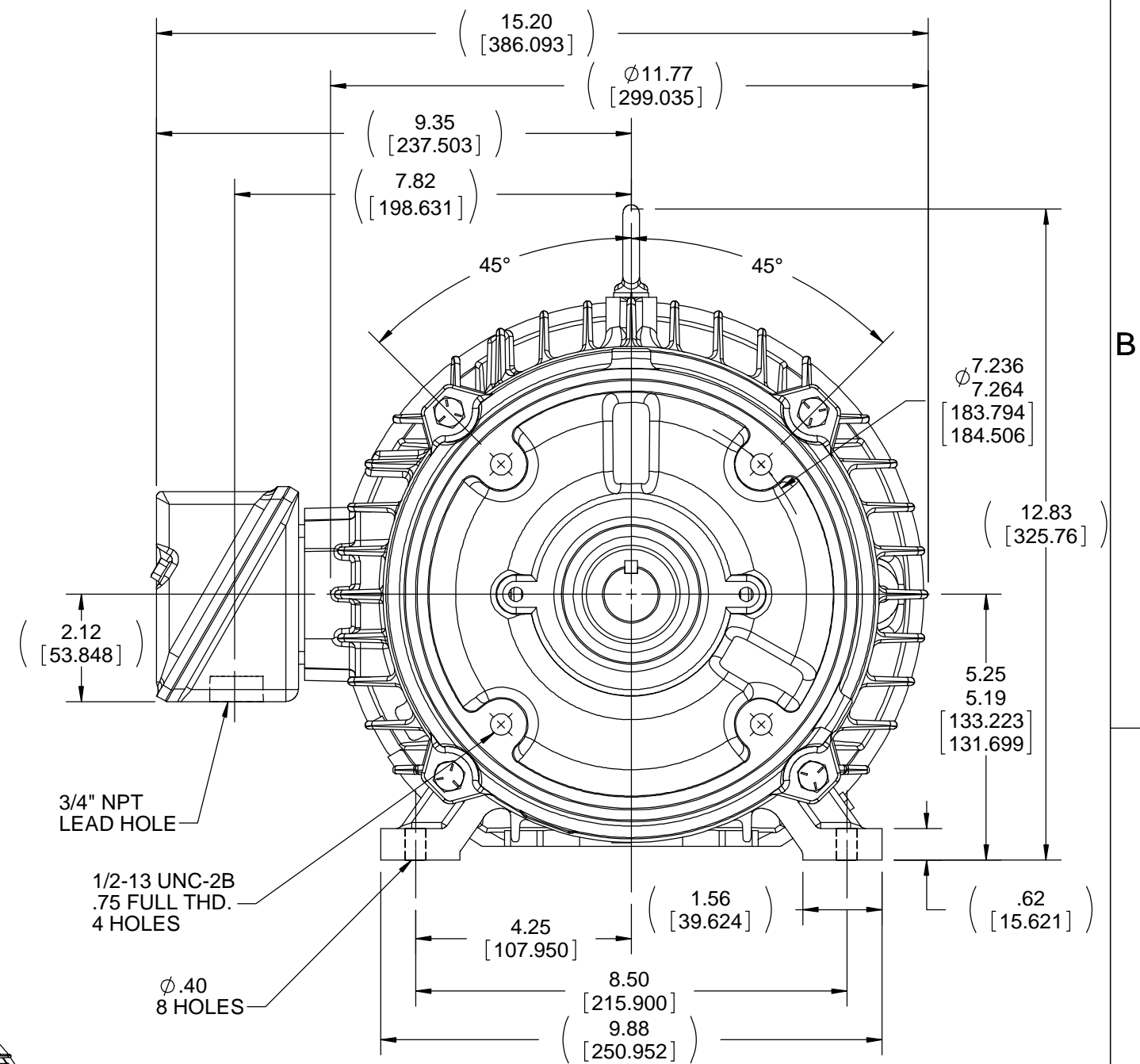
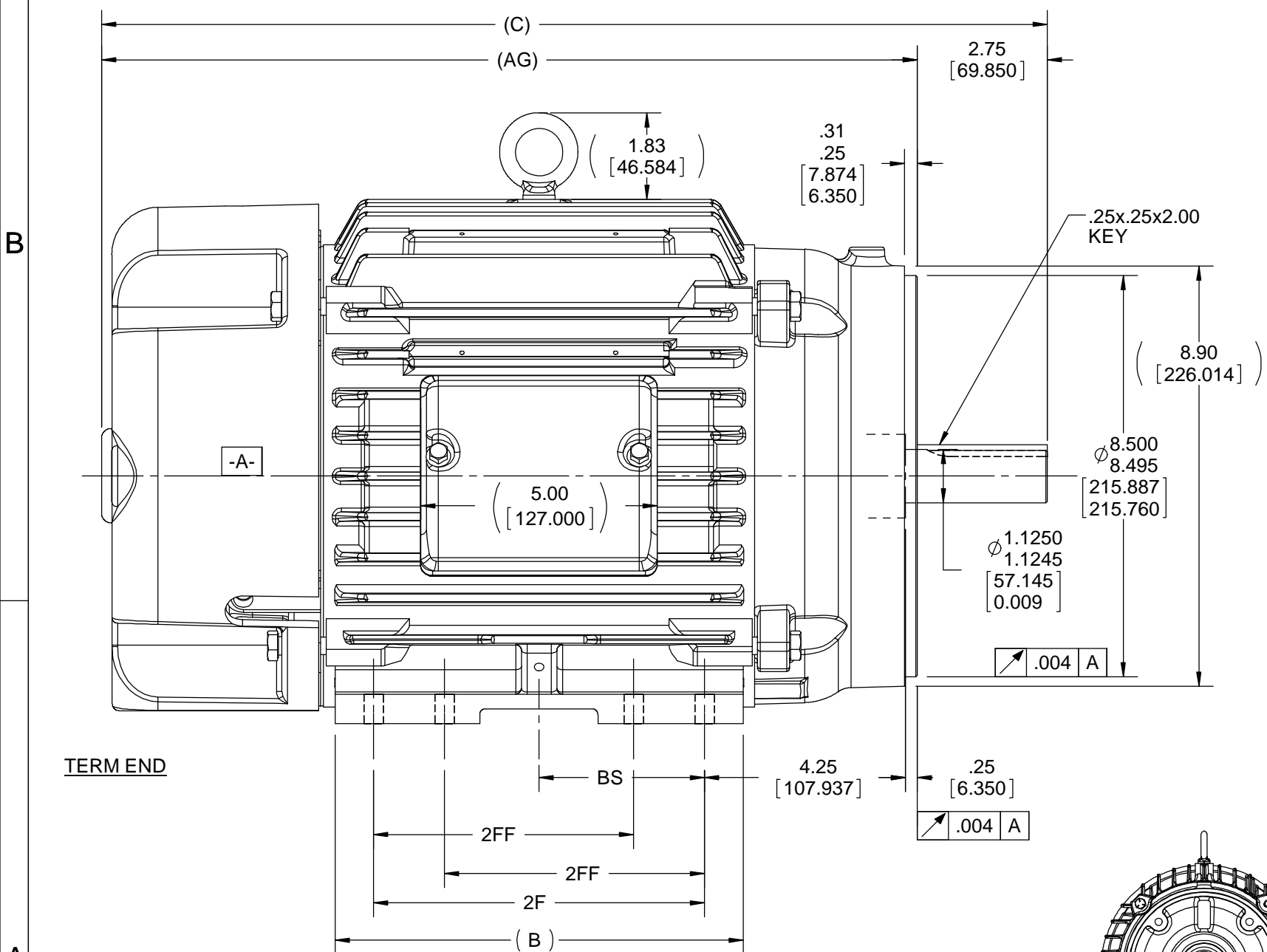
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Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	460 V
Current	8.9 A	Speed	3540 rpm
Service Factor	1	Phase	3
Efficiency	90.2 %	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	215UC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	1.163 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	U	Overall Length	20.00 in
Frame Length	9.12 in	Shaft Diameter	1.125 in
Shaft Extension	3 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	EE7300-LE	Outline Drawing	037999-912



- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1212	215	23.00	11.76	10	7	5	20.25
912	213/215	20.00	8.63	7	5.5	3.5	17.25
DASH	FRAME	C	B	2F	2FF	BS	AG

DRAWING REVISION B	REVISION BY NK	DATE 10/12/2018
ECO ECO-0154647	APPROVED BY SR	DATE 10/12/2018
ECO DESCRIPTION NPT HOLE REMOVED AS PER ECO-0154647		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
X	±0.1	[±2.5]	±7° 30"
.XX	±0.02	[±0.51]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 200 INCH/mm 5.1

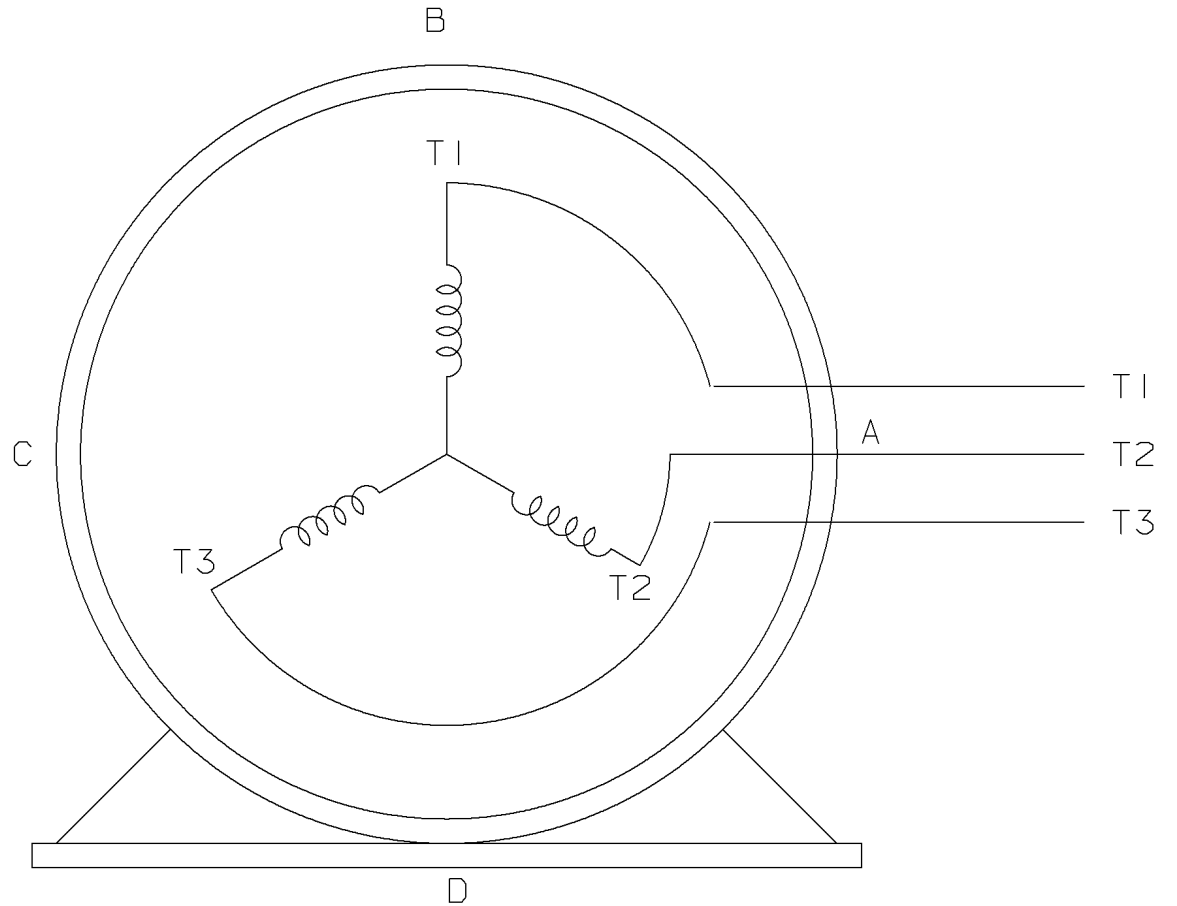
mm SHOWN IN [BRACKETS]

DRAWN BY SAJID
DATE 04/30/2015
APPROVED BY ST
DATE 04/30/2015
REFERENCE 037737LE
THIRD ANGLE PROJECTION

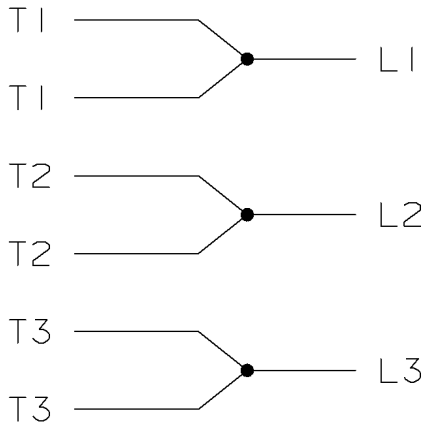
REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 210 FR. - TEFC-C FACE-U	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER 037999
SHEET 1 OF 1	

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS




IF MOTOR HAS
6 LEADS



A-9806 DECAL

VIEW OF TERMINAL END

						TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN MSG 05-22-2002	
						DEC.	TOLERANCE			CHK ML 05-22-2002	
						.X	± .1	TITLE CONNECTION DIAGRAM		SCALE	
						.XX	± .02	SINGLE VOLT - 3Ø MOTOR		REF	
						.XXX	± .005	SURFACE ROUGHNESS UNLESS SPECIFIED		MAT'L.	
1 NEW DRAWING		MSG 05-22-2002		ML		.XXXX	± .0005	FINISH		FMF	
NO. REVISION		BY DATE		CHK ANG		± 7'30'		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				PURCHASED		CAD FILE EE7300-LE		SHOP BOOK		SIZE DRAWING NO.	
				DIST WA - LB - WP - LM - OR - OR				A		EE7300-LE	
										REV. 1	

Data Sheet

Date: 2/1/2018

LM34114



Data @ **460 V**

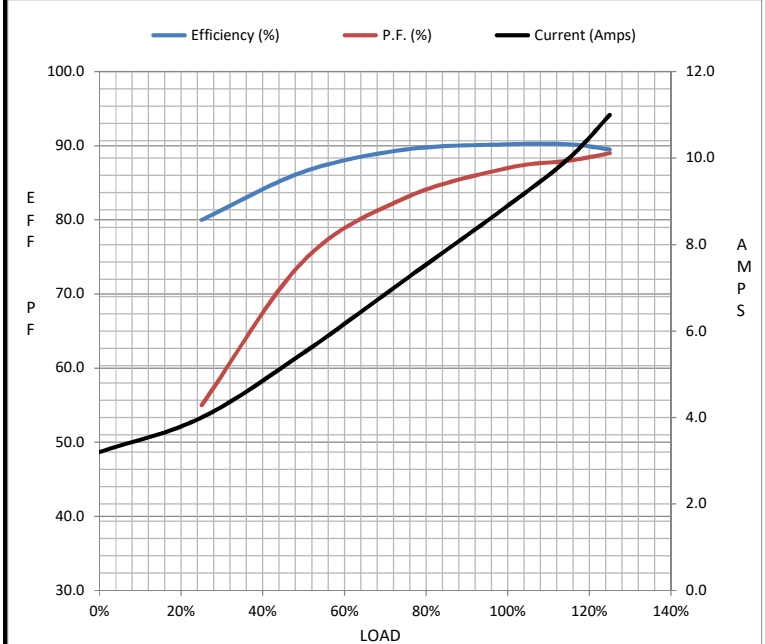
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.2	4.0	5.5	7.2	8.9	10.0	11.0	63.5
Torque (ft-lb)	0.00	2.50	5.5	8.5	11.1	12.5	14.0	24.0
RPM	3600	3585	3575	3560	3540	3,535	3530	0
Efficiency (%)		80.0	86.5	89.5	90.2	90.2	89.5	
P.F. (%)	12.0	55.0	74.5	83.0	87.0	88.0	89.0	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3250	3540	3600
Current (Amps)	63.5	57.0	40.0	8.9	3.2
Torque (ft-lb)	24.0	22.0	38.0	11.1	0.00

Information Block				
HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	40 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.55 Lb-Ft ²			
Ref Wdg	K213269 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	NONE			
Outline Dwg	037999-912			
Conn. Diag	EE7300-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.6880	0.4690	2.2980	2.3930	80.8920



Speed - Torque Curve

