

# PRODUCT INFORMATION PACKET



Model No: LM33486

Catalog No: LM33486

General Purpose Motor, 3 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190-208/380-415 V, 1800 & 1500 RPM,  
182T Frame, TEFC



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## Nameplate Specifications

Phase	3	Output HP	3 & 3 Hp
Output KW	2.2 & 2.2 kW	Voltage	230/460 & 190-208/380-415 V
Speed	1760 & 1470 r/min	Service Factor	1.25 & 1.15
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 85.3 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	7.8/3.9 & 7/3.5 A	Power Factor	80.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
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	4	Rotation	Reversible
Resistance Main	0 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	14.96 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	036121LN-950	Connection Drawing	005010.01LN





## Data Sheet

Date: 1/30/2018

LM33486



Data @ 460 V

## Motor Load Data

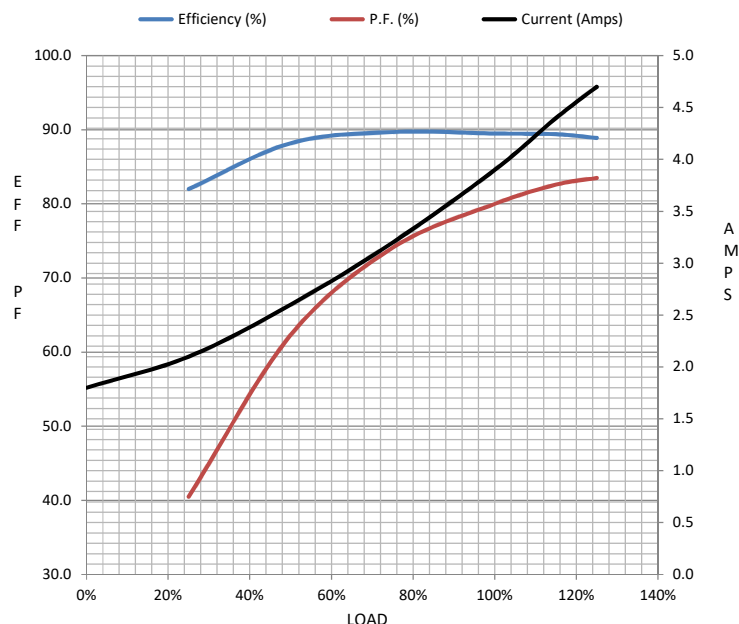
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.80	2.10	2.60	3.2	3.9	4.4	4.7	33.8	
Torque (ft-lb)	0.00	2.20	4.4	6.7	8.9	10.3	11.3	23.5	
RPM	1800	1791	1781	1773	1760	1,754	1749	0	
Efficiency (%)		82.0	88.2	89.7	89.5	89.4	88.9		
P.F. (%)	7.5	40.5	62.3	74.1	80.0	82.6	83.5	0.0	

## Motor Speed Data

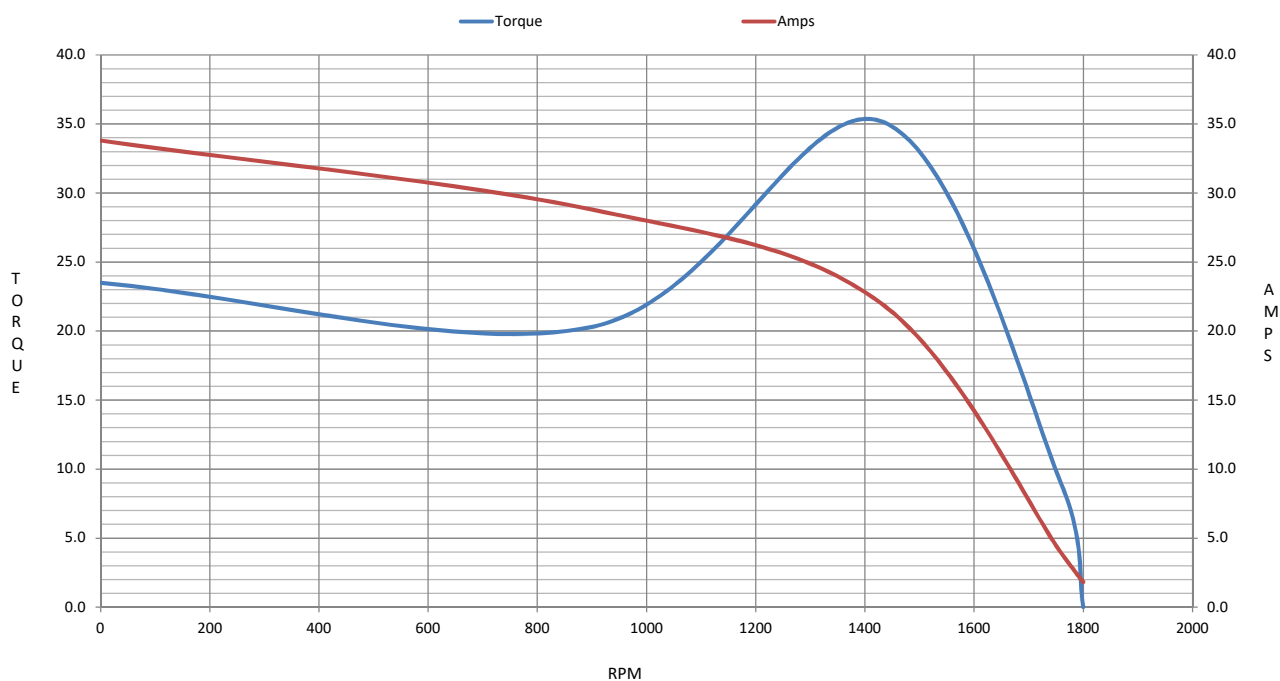
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1430	1760	1800
Current (Amps)	33.8	28.8	22.0	3.9	1.80
Torque (ft-lb)	23.5	20.3	35.2	8.9	0.00

## Information Block

HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TEFC			
Construction	TFY			
Voltage	230/460#190-208/380-415 V			
Frequency	60		Hz	
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	35		° C	
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000		feet	
Rotor/Shaft wk²	0.40		Lb-Ft²	
Ref Wdg	T84200 FL			
Sound Pressure @ 1M	62		dBA	
VFD Rating	NONE			
Outline Dwg	036121LN-950			
Conn. Diag	005010.01LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.2110	1.5310	3.6570	5.3680	102.2490



## Speed - Torque Curve



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : LM33486

(Model No. may contain prefix and/or suffix characters)

Catalog No : LM33486

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)


EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

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**CE 22**