

PRODUCT INFORMATION PACKET



Model No: LM33485

Catalog No: LM33485

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



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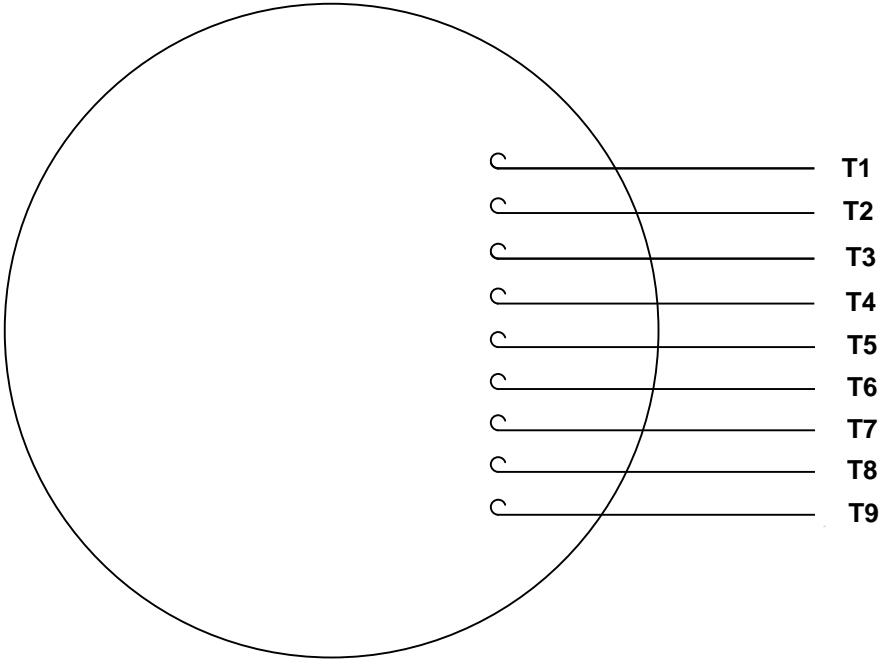
Nameplate Specifications

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	182TC	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		

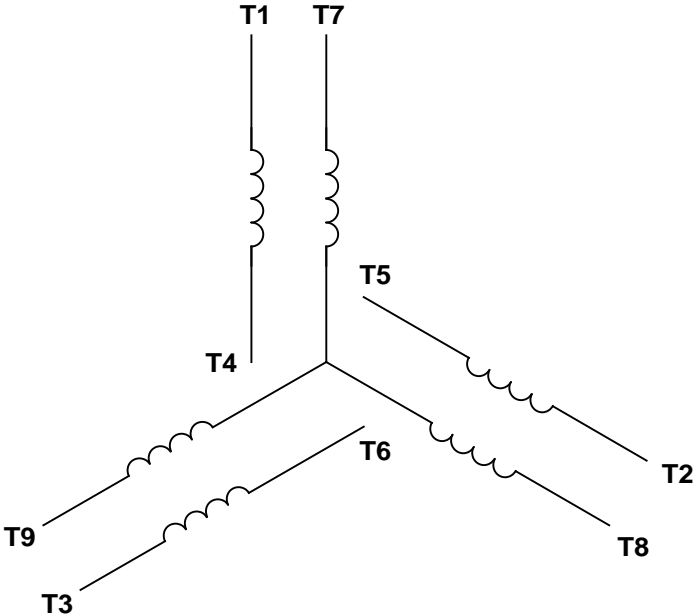
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Clockwise
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	14.97 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	036116LN-950	Connection Drawing	005010.01LN

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.




LINE LEADS



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

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				TOLERANCES UNLESS SPECIFIED			DRAWN KMM 04/16/02	
				DEC	INCHES		CHK	
				.X	±.1		APPR	
				.XX	±.01		SCALE 1:1	
				.XXX	±.005		REF FIG. 2-51	
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11		.XXXX	±.0005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR	MAT'L DECAL - 004014	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE OF	
THIRD ANGLE PROJECTION			RFP	04/12/02	PREV	SIZE	DRAWING NO	
			NETWORK FILE NAME 00501001LN			A	005010-01LN	
							REV	
							--	



CERTIFICATION DATA SHEET

**2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810**

CONN. DIAGRAM: 005010.01LN

OUTLINE: 036116LN-950

CATALOG # : LM33485

WINDING #: T84200 FL 3 A

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&3	2.24&2.24	1800	1760&1450	182TC	TEFC	K	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190-208/380-415	7.8/3.9&9-8.6/4.5-4.3	ACROSS THE LINE	CONTINUOUS	F4	1.25/1.15	40

FULL LOAD EFF:	89.5&88.5	3/4 LOAD EFF:	89.7	1/2 LOAD EFF:	88.2	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	80.5&85	3/4 LOAD PF:	74.1	1/2 LOAD PF:	62.3	87.5		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.9 LB-FT	67.6 / 33.8	23.5 LB-FT 264 %	35.2 LB-FT 396 %	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.4 LB-FT^2	0 LB-FT^2	20 SEC.	2	90 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - GE

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
6206	6205	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ALUMINUM

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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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

Data Sheet

Date: 1/18/2018

LM33485



Data @ 460 V

Motor Load Data

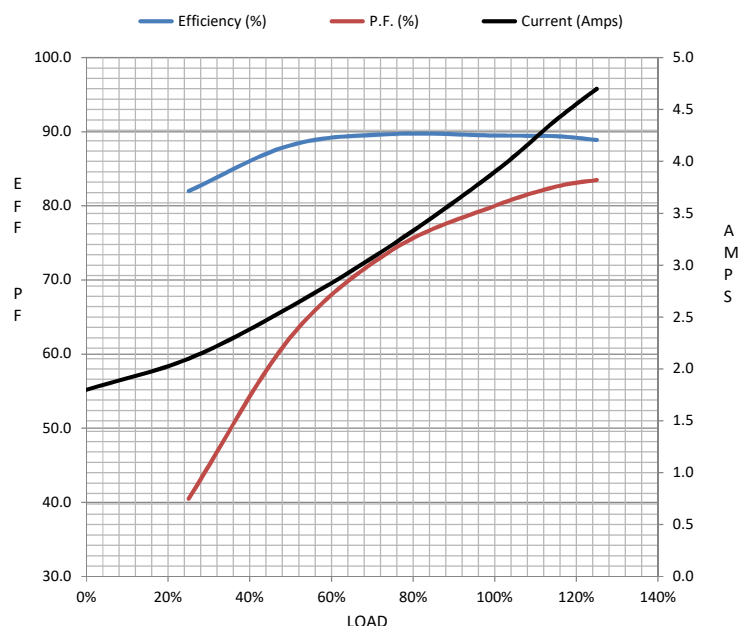
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.80	2.10	2.60	3.2	3.9	4.4	4.7	33.8	
Torque (ft-lb)	0.00	2.20	4.4	6.7	8.9	10.3	11.3	23.5	
RPM	1800	1791	1781	1773	1760	1,754	1749	0	
Efficiency (%)		82.0	88.2	89.7	89.5	89.4	88.9		
P.F. (%)	7.5	40.5	62.3	74.1	80.0	82.6	83.5	0.0	

Motor Speed Data

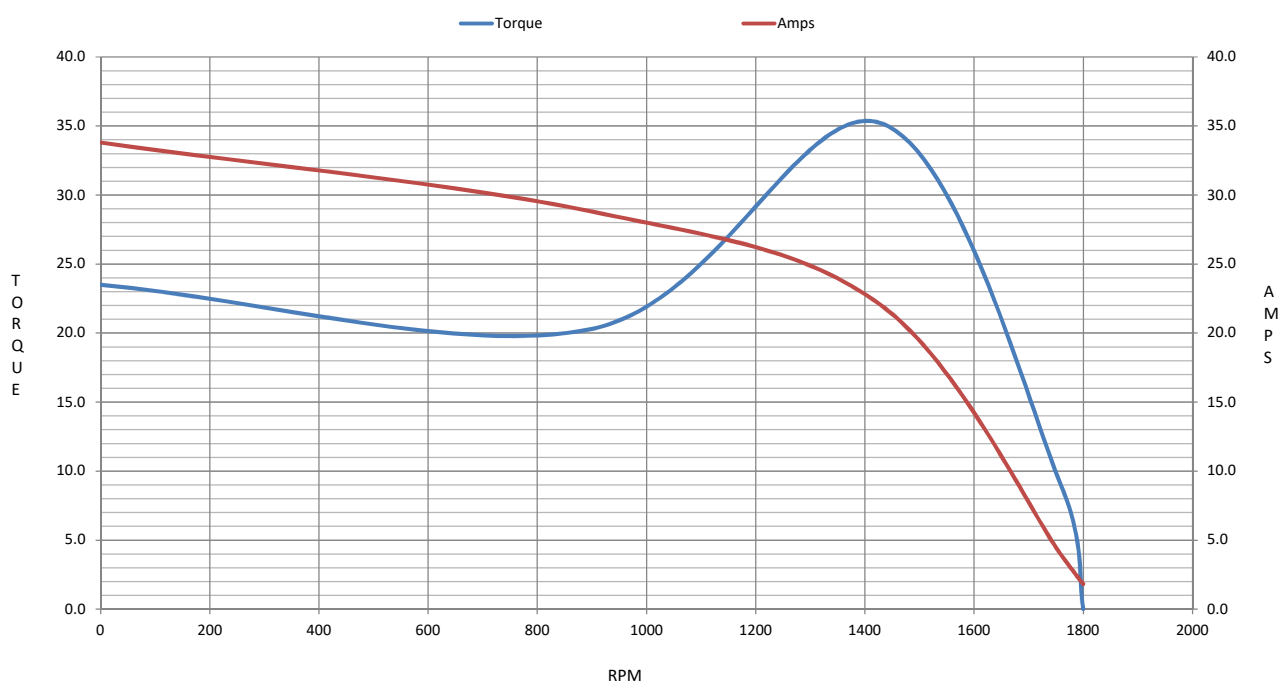
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1430	1760	1800
Current (Amps)	33.8	28.8	22.0	3.9	1.80
Torque (ft-lb)	23.5	20.3	35.2	8.9	0.00

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	036116LN-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 : LM33485

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

Catalog No : LM33485

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

Created on 09/01/2022

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