

PRODUCT INFORMATION PACKET

Model No: LM33565

Catalog No: LM33565

General Purpose Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 184T Frame, TEFC



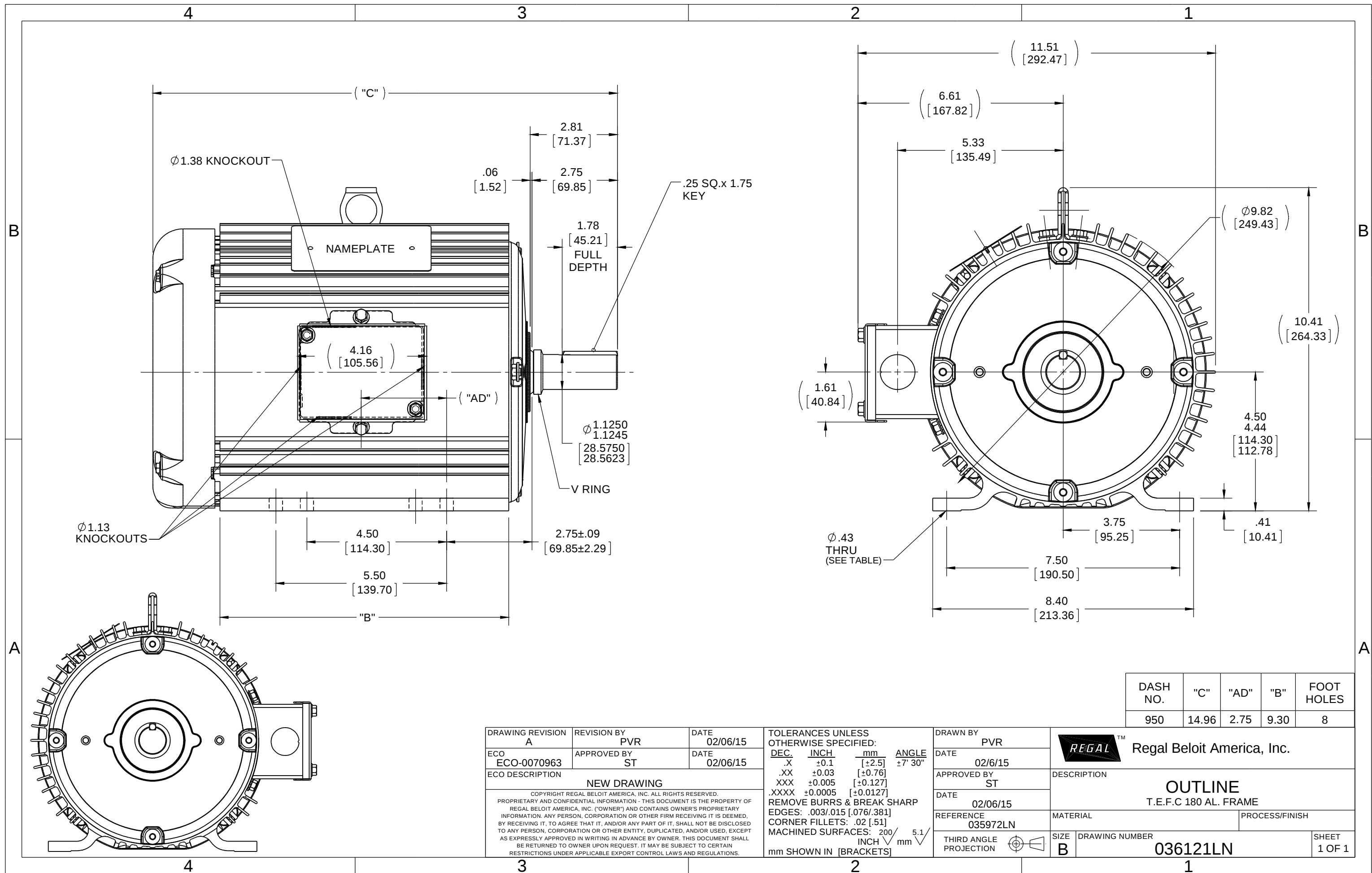
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Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	12.0/6.0 A	Speed	3495 rpm
Service Factor	1.15	Phase	3
Efficiency	88.5 %	Power Factor	89.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Frame	184T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
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	2	Rotation	Reversible
Resistance Main	2.32 Ohms	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
Connection Drawing	005010.01	Outline Drawing	036121LN-950

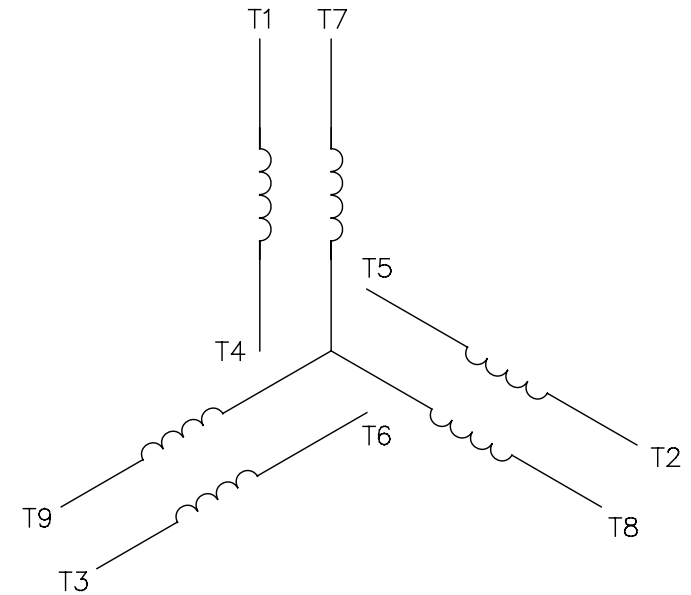


005010-01

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

TOLERANCES
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2"



Regal Beloit America, Inc.

DRAWN RDW 04/12/02

CHK

APPD

SCALE 1=1

REF FIG.2-51

FMF

PREV

A UPDATED TO REGAL LOGO

SAJ 06/26/15

AJY

.XXXX ±.0005

MAT'L. DECAL - 004014

NO. REVISION

BY & DATE

CHK

ANG ±1/2"

FINISH

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RFP 04/12/02

CAD FILE 00501001

SIZE

DRAWING NO.

REV.

DIST BRF-NLV

A

005010-01

A



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01

CAT #: LM33565

OUTLINE: 036121LN-950

WINDING: T82103

R5 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	3600	3495	184T	TEFC	TFL	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	12/6&9.2/4.6	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	88.5	3/4 LD EFF	89.1	1/2 LD EFF	87.9	GTD EFF		ELECT. TYPE	
F.L. PF	89.5	3/4 LD PF	87.5	1/2 LD PF	81.1	86.2		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
7.5 LB-FT	46.0	16.0 LB-FT 213%	26.0 LB-FT 347%	55	

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA		0.30 LB-FT²	13 LB-FT²	15 SEC.	2	125 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

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

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
1.392	1.13	4.811	1.846	124.96	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 9/11/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: Y-(LEESON UL REC)		

Data Sheet

Date: 9/11/2018

LM33565



Data @ 460 V

Motor Load Data

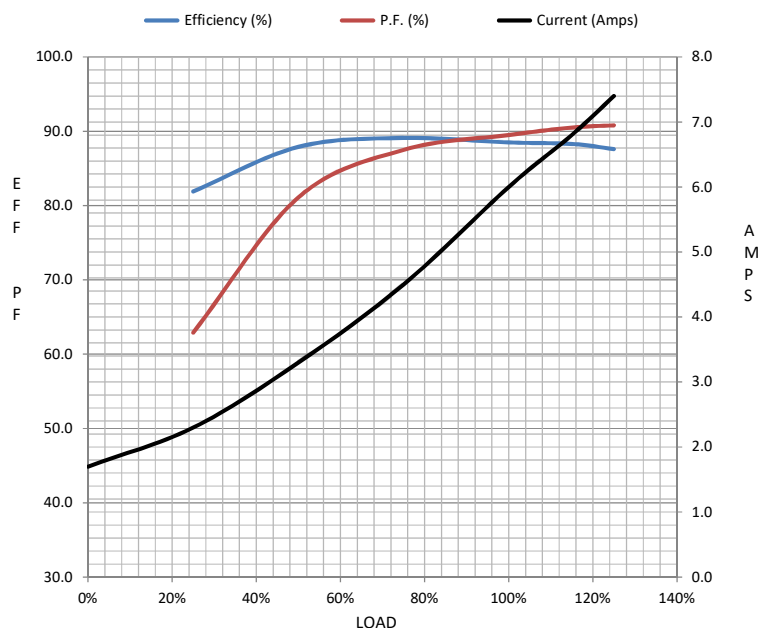
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.70	2.30	3.3	4.5	6.0	6.8	7.4	46.0	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.5	8.7	9.5	16.0	
RPM	3600	3576	3551	3526	3495	3,477	3463	0	
Efficiency (%)		81.9	87.9	89.1	88.5	88.3	87.6		
P.F. (%)	12.5	62.9	81.1	87.5	89.5	90.5	90.8	45.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	170	2850	3495	3600
Current (Amps)	46.0	47.0	30.0	6.0	1.70
Torque (ft-lb)	16.0	15.5	26.0	7.5	0.00

Information Block

HP	5.0			
Sync. RPM	3600			
Frame	180			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460#190/380	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	1,000	feet		
Rotor/Shaft wk²	0.30	Lb-Ft²		
Ref Wdg	T82103 R5			
Sound Pressure @ 1M	75	dBA		
VFD Rating	NONE			
Outline Dwg	036121LN-950			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.3920	1.1300	4.8110	1.8460	124.9600



Speed - Torque Curve

