

PRODUCT INFORMATION PACKET



Model No: LM33601
Catalog No: LM33601
3 HP Special Voltage Motor, 3 phase, 3600 RPM, 575 V, 182T Frame, TEFC
Special Voltage Motors



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Nameplate Specifications

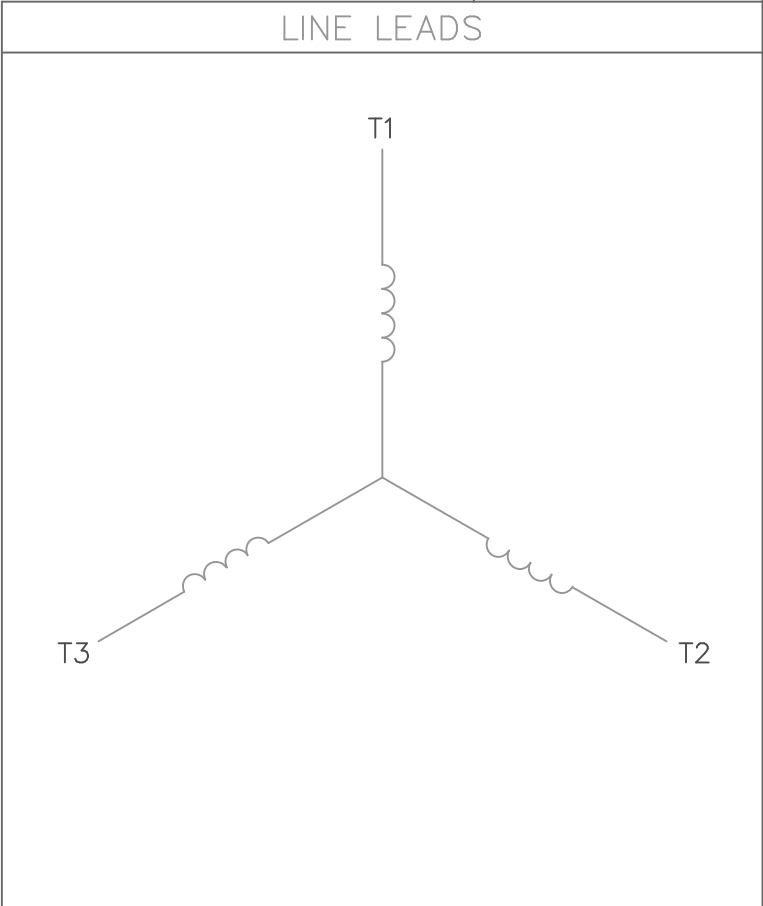
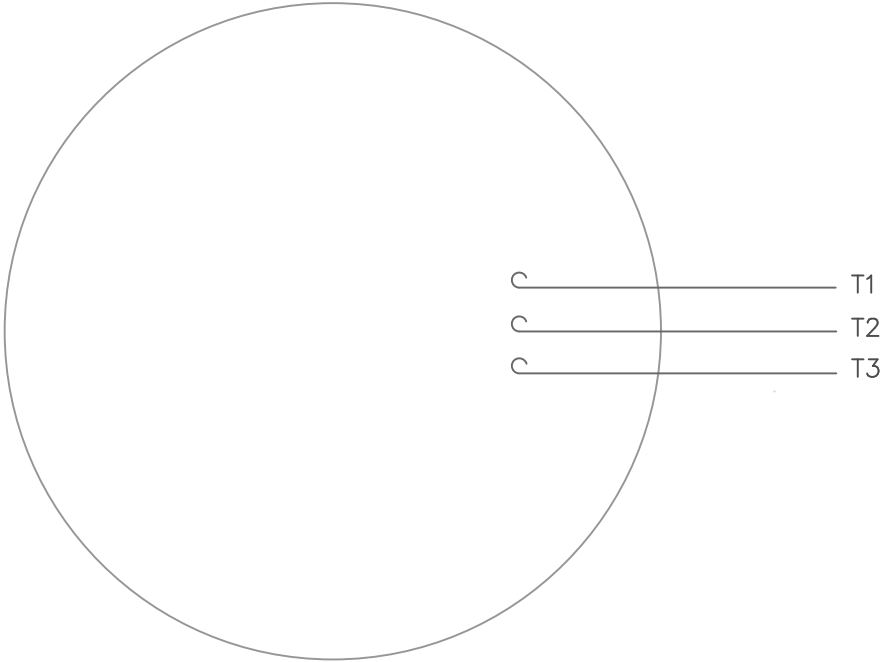
Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	575 V
Current	3.1 A	Speed	3510 rpm
Service Factor	1.25	Phase	3
Efficiency	86.5 %	Power Factor	83.7
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	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	3.56 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	00510201LN	Outline Drawing	036121LN-950

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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ()

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 5/1/02			
				DEC.	INCHES		CHK			
				.X	±.1		APPD			
				.XX	±.01		TITLE	SCALE 1=1		
				.XXX	±.005			REF		
				.XXXX	±.0005	MAT'L.	DECAL - 004169	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		5/1/02	CAD FILE 00510201LN		SIZE	DRAWING NO.	REV.
			DIST				A	005102-01LN		



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 00510201LN
OUTLINE: 036121LN-950
WINDING: T82102

CAT #: LM33601

FY 4

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	3600	3510	182T	TEFC	TFY	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	3.1	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	86.5	3/4 LD EFF	82.9	1/2 LD EFF	79.4	GTD EFF	83.8	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	83.7	3/4 LD PF	78.4	1/2 LD PF	67.6				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
4.5 LB-FT	26.4	11.0 LB-FT 244%	18.2 LB-FT 404%	30

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA	0.23 LB-FT²	11 LB-FT²	15 SEC.	2	85 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	GRAY - LINCOLN

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
2.779	3.148	11.441	3.828	261.628	0.150	ODE

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

DATE: 1/30/2018	BRAKE: NONE	
	FT-LB: NONE	NONE
	VOLTAGE: NONE	NONE
	UL: Y-(LEESON UL REC)	HZ:

Data Sheet

Date: 1/30/2018

LM33601



Data @ 575 V

Motor Load Data

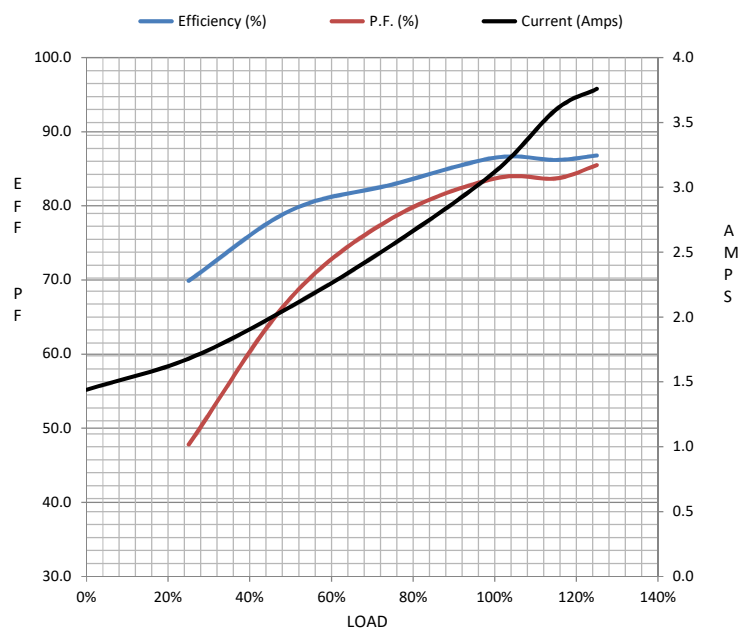
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.44	1.68	2.08	2.56	3.1	3.6	3.8	26.4	
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.2	5.6	11.0	
RPM	3600	3579	3559	3539	3510	3,500	3492	0	
Efficiency (%)		69.9	79.4	82.9	86.5	86.2	86.8		
P.F. (%)	13.9	47.8	67.6	78.4	83.7	83.7	85.5	49.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	186	2800	3510	3600
Current (Amps)	26.4	26.0	17.4	3.1	1.44
Torque (ft-lb)	11.0	11.0	18.2	4.5	0.00

Information Block

HP	3.0			
Sync. RPM	3600			
Frame	180			
Enclosure	TEFC			
Construction	TFY			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	30 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.23 Lb-Ft²			
Ref Wdg	T82102 FY			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	036121LN-950			
Conn. Diag	00510201LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.7790	3.1480	11.4410	3.8280	261.6280



Speed - Torque Curve

