

PRODUCT INFORMATION PACKET



Model No: LM33570
Catalog No: LM33570
3 HP General Purpose Motor, 3 phase, 3600 RPM, 230/460 V, 182TC Frame, TEFC
Three Phase TEFC Motors



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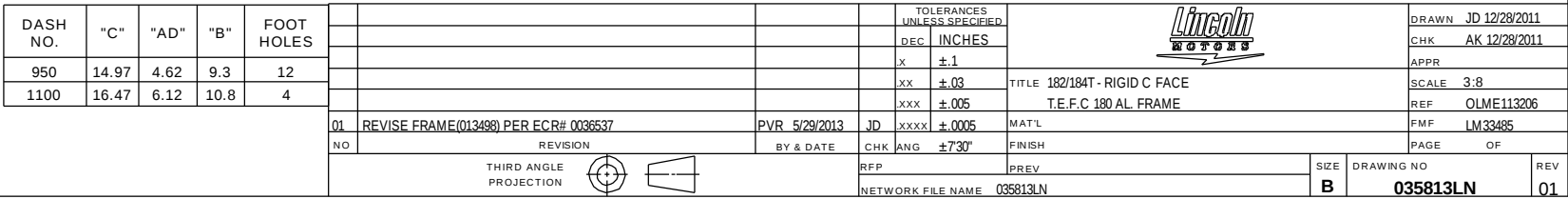
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	7.8/3.9 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	182TC	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

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	14.97 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01 LN
OUTLINE: 035813LN-950
WINDING: T82102

FV 3

CAT #:

LM33570

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN				
3	2.2	3600	3510	182TC	TEFC	TFY	K	B				
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.			
3	60/50	230/460#190-208/380-415	7.8/3.989 2-8.8/4-6-4.4	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	ELECT. TYPE			
F.L. PF	83.7		3/4 LD PF	78.4		1/2 LD PF	67.6	83.8	SQ CAGE IND RUN			
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (° C)				
4.5	LB-FT	33.0		11.0	LB-FT	244%	18.2	LB-FT	404%	30		
PRESSURE @ 3	SOUND	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
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTS/SAVER
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE ODE								
BALL BALL	POLYREX EM	T	NONE	NONE	AS1 1045 (C-240)	ALUMINUM		
6206								
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		
1.778	2.015	7.322	2.45	167.442	0.150	ODE		

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

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

Data Sheet

Date: 9/11/2018

LM33570



Date @ 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	4.5	4.7	33.0
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)	33.0	32.5	21.7	3.9	1.80
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	TEY
Voltage	230/460#190-208/380-415 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

Efficiency (%) P.F. (%) Current (Amps)

VFD Rating	NONE			
Outline Dwg	035813LN-950			
Conn. Diag	005010.01 1LN			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.7780	2.0150	7.3220	2.4500	167.4420

