

PRODUCT INFORMATION PACKET



Model No: LM18306
Catalog No: LM18306
125 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 405T Frame, ODP
Special Voltage Motors



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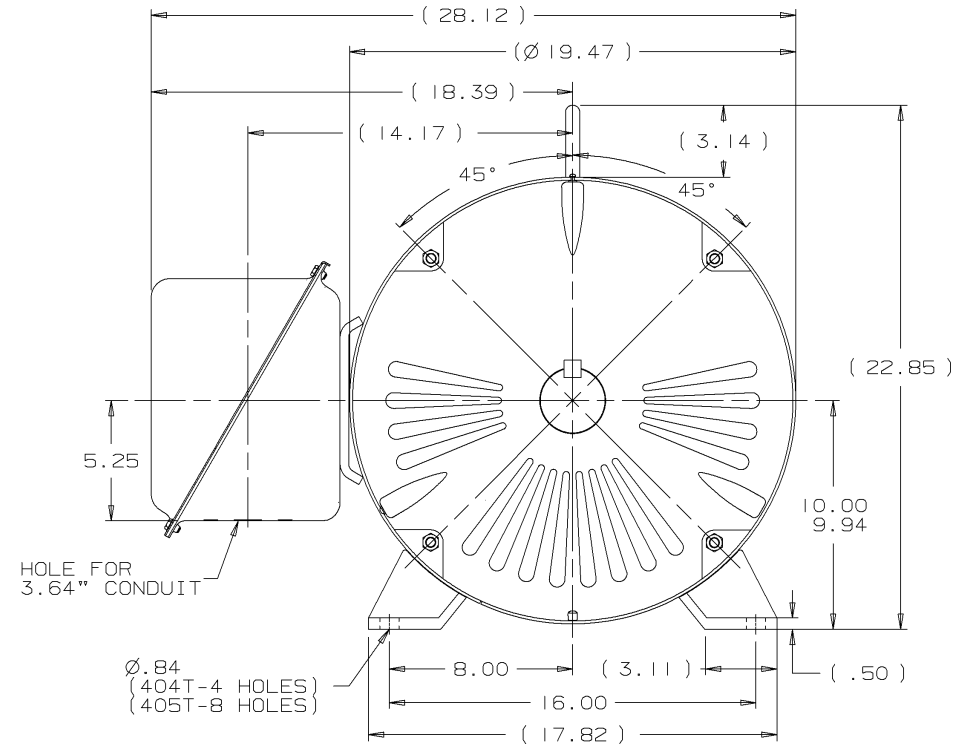
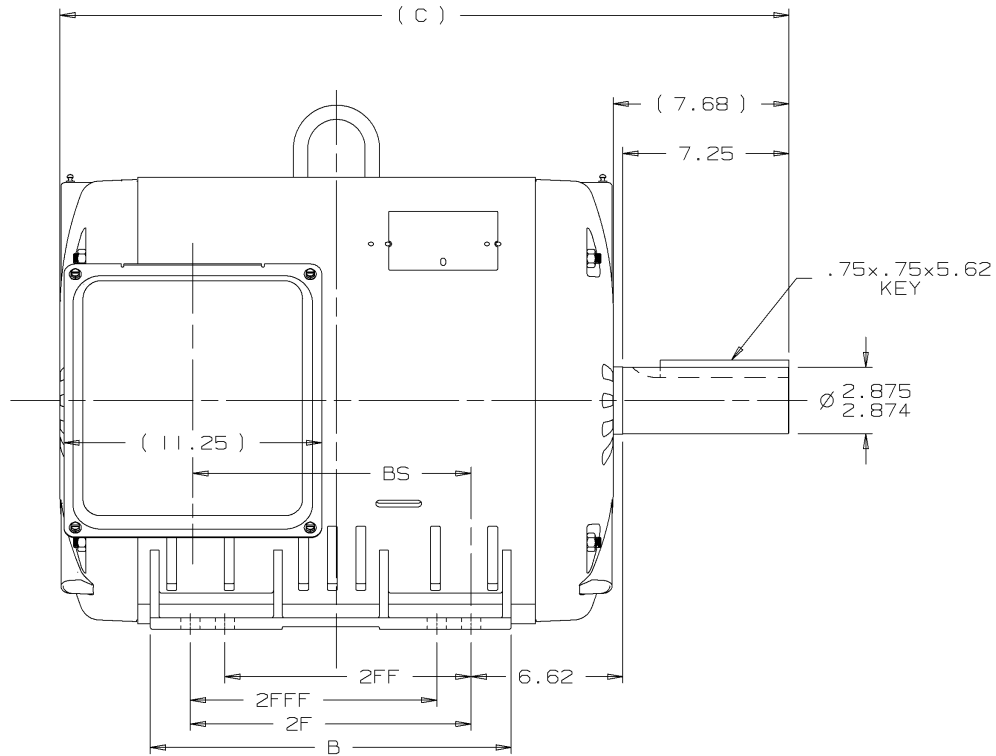
Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	575 V
Current	122.0 A	Speed	1782 rpm
Service Factor	1.25	Phase	3
Efficiency	94.5 %	Power Factor	81.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	405T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	315	Opp Drive End Bearing Size	313
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

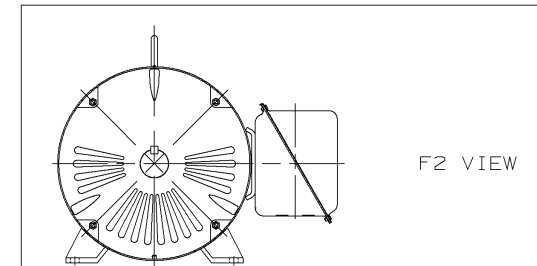
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.052 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	33.31 in
Frame Length	18.85 in	Shaft Diameter	2.875 in
Shaft Extension	7.25 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7341-LN	Outline Drawing	XJ2D1SS1-1885

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- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

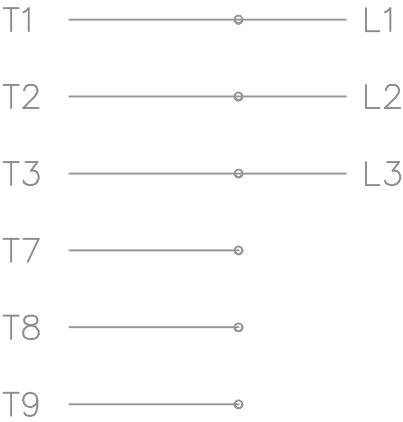


DASH	FRAME	C	B	2F	2FF	2FFF	BS	REV	DATE	CHANGE	NAME	PART NAME	OUTLINE	NEMA MOTORS	DRWG NO
1735	404	31.81	15.75	12.25			12.14	1	08-31-2001	NEW DRAWING	TJB	400T ODP UE			XJ2DISSI
1885	405	33.31	17.25	13.75	10.75	10.75	13.64								

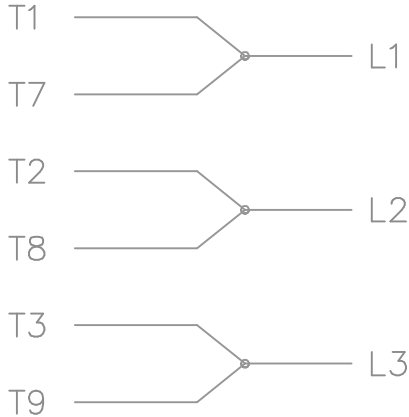


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"		DRAWN BY	TJB	08-21-2001
MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		CHKD BY	ML	08-23-2001
FINISH		APPD BY	HNH	08-29-2001
MATERIAL		CADD FILE NO. XJ2DISSI		

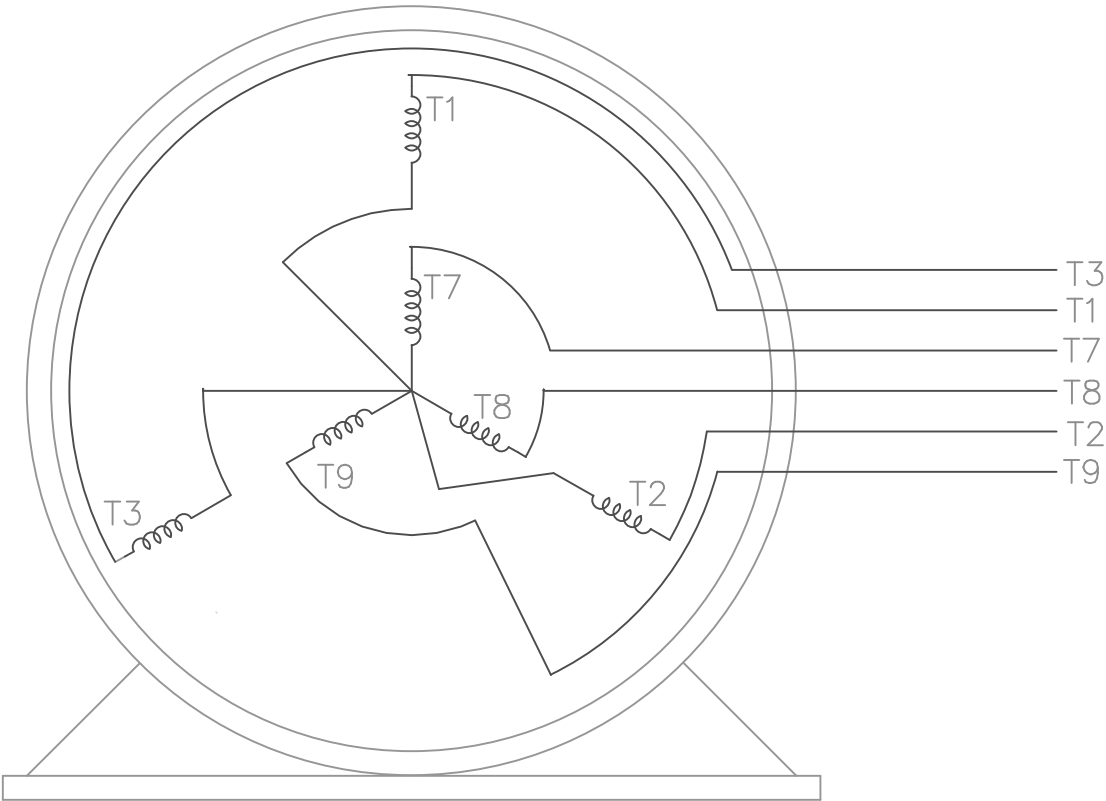
START CONNECTIONS



RUN CONNECTIONS



THREE PHASE – 6 LEAD
PART WINDING START



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN KL 12-29-2003				
				DEC.	INCHES		CHK ML 12-30-2003				
				.X	± -		APPD EAB 01-02-2004				
				.XX	± -	TITLE EXTERNAL CONNECTION DIAGRAM 3Ø – PART WINDING START	SCALE 1=1				
				.XXX	± -		REF				
				.XXXX	± -	MAT'L.	FMF MU49430				
NO.	REVISION	BY & DATE	CHK	ANG	± -	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	01-02-2004		CAD FILE	EE7341-LN	SIZE	DRAWING NO.	PAGE OF	REV.
			DIST	WA-LB				A	EE7341-LN		



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7341-LN
OUTLINE: XJ2D1SS1-1885
WINDING: C4054033

CAT #: LM18306

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
125	93	1800	1782	405T	DP	TDR	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	122	HYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	94.5	3/4 LD EFF	95.0	1/2 LD EFF	94.5	GTD EFF		ELECT. TYPE
F.L. PF	81.5	3/4 LD PF	79.0	1/2 LD PF	71.0	93.6		SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
368 LB-FT	656	644 LB-FT 175%	755 LB-FT 205%	60

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA		23.0 LB-FT²	0 LB-FT²	0 SEC.	0	0 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	1045 HOT ROLLED (C-204)	ROLLED STEEL
315 313						

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
0.055	0.027	0.339	0.364	6.391	0.150	ODE

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

DATE: 9/5/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 1/19/2018

LM18306



Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	42.8	50.4	69.6	93.6	122	140	152	656	
Torque (ft-lb)	0.00	91.5	183	275	368	424	462	644	
RPM	1800	1795	1792	1787	1782	1,780	1776	0	
Efficiency (%)		91.7	94.5	95.0	94.5		94.1		
P.F. (%)	4.0	50.5	71.0	79.0	81.5	81.5	82.0	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle				
Speed (RPM)	0	900	1720	1782	1800				
Current (Amps)	656	660	340	122	42.8				
Torque (ft-lb)	644	675	755	368	0.00				
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS)						Information Block			
						HP	125.0		
						Sync. RPM	1800		
						Frame	405		
						Enclosure	DP		
						Construction	TDR		
						Voltage	575	V	
						Frequency	60	Hz	
						Design	B		
						LR Code letter	G		
						Service Factor	1.15		
						Temp Rise @ FL	60	° C	
						Duty	CONT		
						Ambient	40	° C	
						Elevation	1,000	feet	
						Rotor/Shaft wk²	23.0	Lb-Ft²	
						Ref Wdg	C4054033	NONE	
						Sound Pressure @ 1M	999	dBA	
						VFD Rating	NONE		
						Outline Dwg	XJ2D1SS1-1885		
Conn. Diag	A-EE7341-LN								
Additional Specifications:									
EQUIV CKT (OHMS / PHASE)									
R1	R2	X1	X2	Xm					
0.0550	0.0270	0.3390	0.3640	6.3910					