

# PRODUCT INFORMATION PACKET



Model No: LM32757

Catalog No: LM32757

General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,  
404TS Frame, DP



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## Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 190/380 V
Speed	1784 & 1485 rpm	Service Factor	1.25 & 1.15
Frame	404TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	260/130 & 240/120 A	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6315	Opp Drive End Bearing Size	6313
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	.0449 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	29.18 in
Frame Length	17.35 in	Shaft Diameter	2.125 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XJ2D1SS2-1735	Connection Drawing	A-EE7308AA-LN

															TOLERANCES UNLESS SPECIFIED						DRAWN NJS 01-17-2002								
															DEC. INCHES						CHK DRS 01-31-2002								
																					APPD HNH 02-01-2002								
															.XX ±.03			TITLE OUTLINE NEMA MOTORS 400TS ODP UE			SCALE 1=6								
															.XXX ±.005						REF								
1735	404TS	29.18	----	15.94	12.25	----	----	11.74	1	NEW DRAWING MU40181				NJS 02-01-2002	HNH	XXXX	±.0005	MAT'L	FIMF										
1885	405TS	30.68	----	17.25	13.75	10.75	10.75	13.24	NO.	REVISION				BY & DATE		CHK	ANG	±7°30"	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			CAD FILE XJ2D1SS2			SIZE B		DRAWING NO. PAGE OF XJ2D1SS2		REV. 1	
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS																					

T12 \_\_\_\_\_  
 T1 \_\_\_\_\_  
 T6 \_\_\_\_\_ L1  
 T7 \_\_\_\_\_

T2 \_\_\_\_\_  
 T4 \_\_\_\_\_  
 T8 \_\_\_\_\_ L2  
 T10 \_\_\_\_\_

T3 \_\_\_\_\_  
 T5 \_\_\_\_\_  
 T9 \_\_\_\_\_ L3  
 T11 \_\_\_\_\_

LOW VOLTAGE

T12 \_\_\_\_\_ L1  
 T1 \_\_\_\_\_  
 T4 \_\_\_\_\_  
 T7 \_\_\_\_\_  
 T2 \_\_\_\_\_  
 T10 \_\_\_\_\_ L2

T5 \_\_\_\_\_  
 T8 \_\_\_\_\_  
 T3 \_\_\_\_\_ L3  
 T11 \_\_\_\_\_

T6 \_\_\_\_\_  
 T9 \_\_\_\_\_

HIGH VOLTAGE



VIEW OF TERMINAL END

					✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7°30"		
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR		MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY TRB 07-16-1999
1	06-18-1999	NEW DRAWING	TRB		FINISH		CHKD BY ML 06-18-1999
					MATERIAL		APPD BY GK 06-18-1999
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308AA-LN
					PURCHASED	CADD FILE NO.	EE7308AALN

ERROR: undefined  
OFFENDING COMMAND: Pscrip  
STACK:



## CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308AA-LN

OUTLINE: XJ2D1SS2-1735

CATALOG #: LM32757

WINDING #: L4044018 1

MOUNTING: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75.0&56.0	1800	1784&1485	404TS	DP	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	260/130&240/120	WYE START DELTA RUN	CONTINUOUS	F1	1.25/1.15	40

FULL LOAD EFF:	95.4&94.1	3/4 LOAD EFF:	95	1/2 LOAD EFF:	94.1	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	75&75	3/4 LOAD PF:	69	1/2 LOAD PF:	56.5	94.5		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	1450 / 725	578 LB-FT 196 %	718 LB-FT 244 %	45

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

## \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6315	6313						

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  
FT-LB NONE V NONE Hz

## Data Sheet

Date: 1/19/2018

LM32757



Data @ 460 V

## Motor Load Data

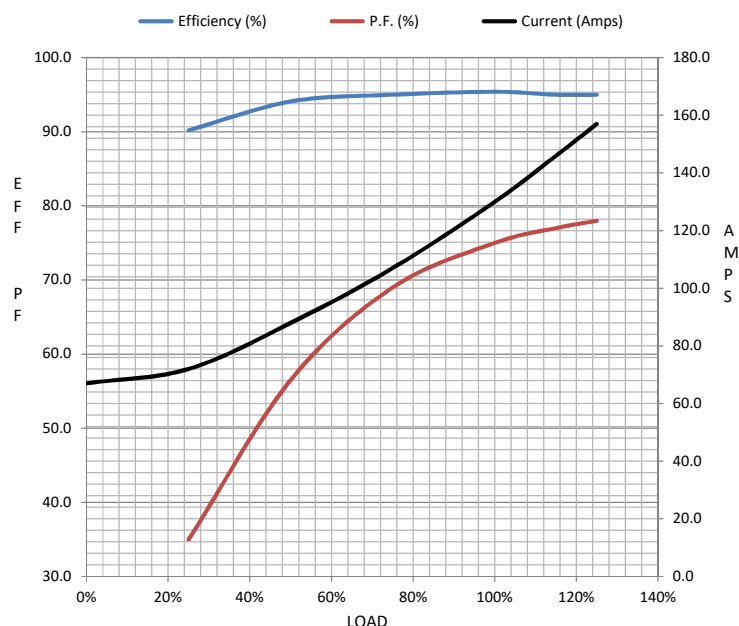
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	67.0	72.0	88.0	107	130	146	157	725	
Torque (ft-lb)	0.00	73.0	147	220	294	339	369	578	
RPM	1800	1796	1792	1788	1784	1,781	1780	0	
Efficiency (%)		90.2	94.1	95.0	95.4	95.0	95.0		
P.F. (%)	3.5	35.0	56.5	69.0	75.0	77.0	78.0	30.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1784	1800
Current (Amps)	725	600	397	130	67.0
Torque (ft-lb)	578	450	718	294	0.00

## Information Block

HP	100.0			
Sync. RPM	1800			
Frame	404			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	20.0	Lb-Ft²		
Ref Wdg	L4044018	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	XJ2D1SS2-1735			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0310	0.0200	0.2500	0.2470	3.9480



## Speed - Torque Curve

