

PRODUCT INFORMATION PACKET



Model No: LM32143

Catalog No: LM32143

General Purpose Motor, 300 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 447TS Frame,
DP



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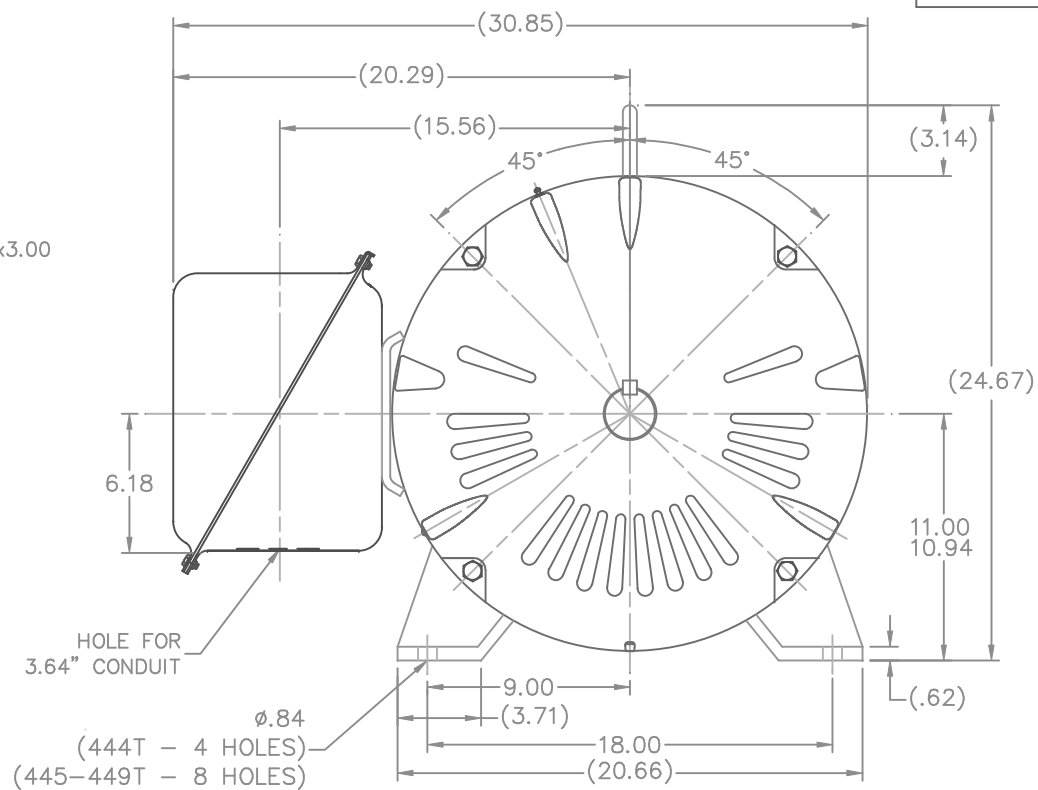
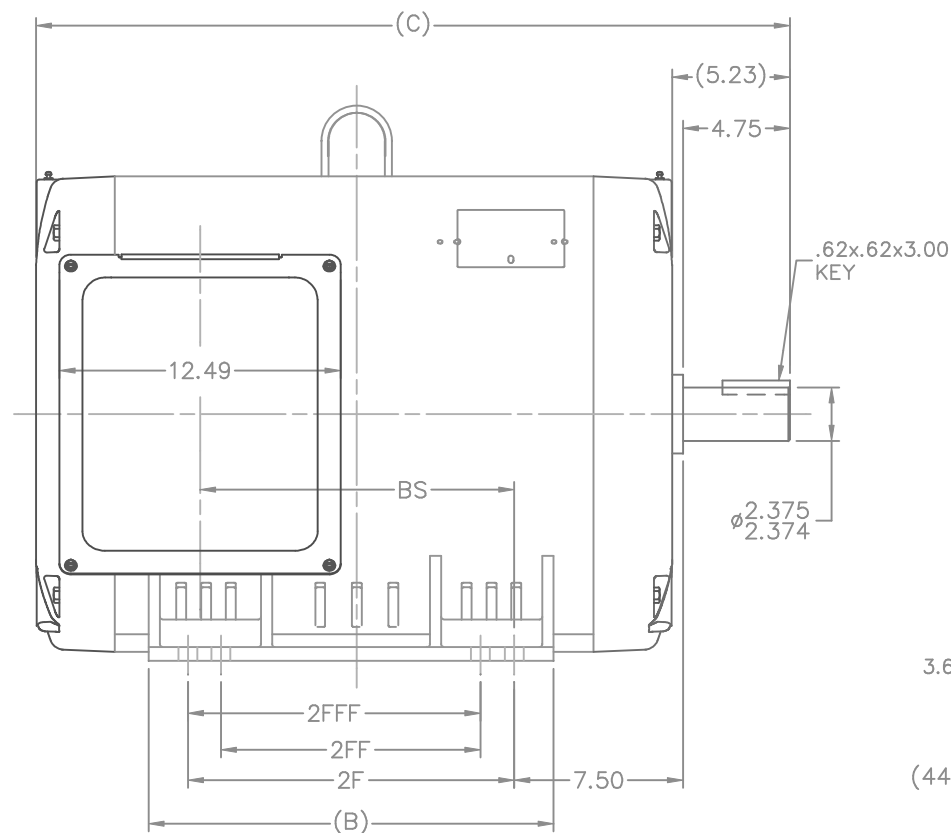


Nameplate Specifications

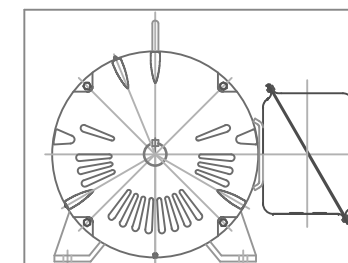
Phase	3	Output HP	300 & 250 Hp
Output KW	224.0 & 187.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	447TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	348 & 350 A	Power Factor	84
Duty	Continuous	Insulation Class	F
Design Code	BC	KVA Code	G
Drive End Bearing Size	318	Opp Drive End Bearing Size	315
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	.013 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	39.00 in
Frame Length	26.77 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XK2D1SS2-2677	Connection Drawing	A-EE7340-LN

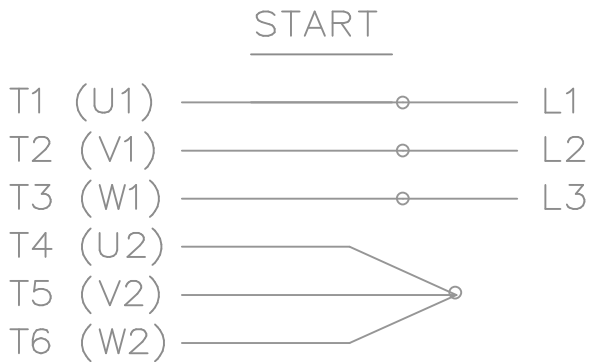


- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX
 SIDE OF MOTOR.

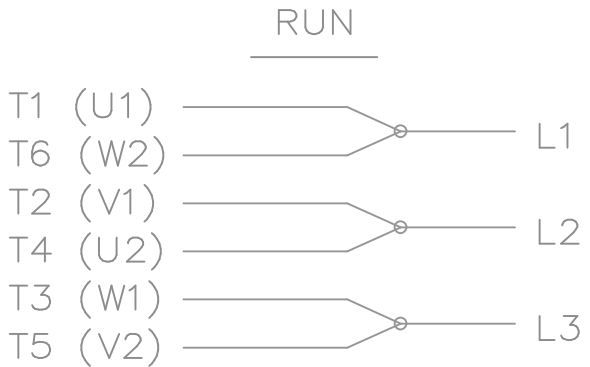
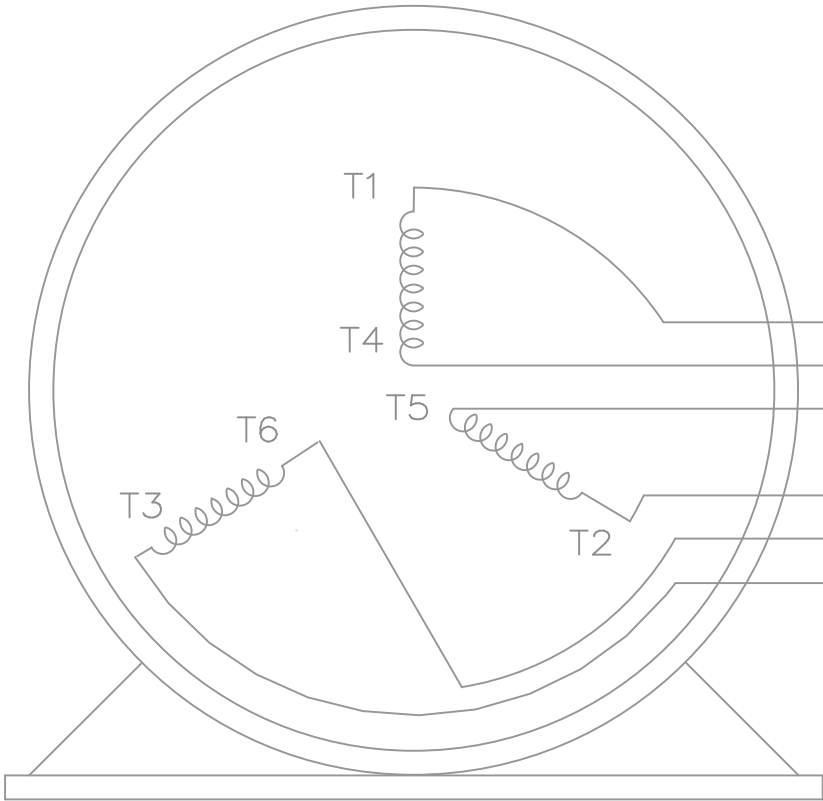


F2 VIEW

								TOLERANCES UNLESS SPECIFIED DEC. INCHES				DRAWN TJB 08-08-2001 CHK ML 08-23-2001 APPD HNH 08-30-2001					
DASH	FRAME	C	B	BS	2F	2FF	2FFF	4	REVISED FROM 4 TO 4-8 HOLES PER CN 37556	CTO 12-17-2001	IB	.X	±.1	TITLE OUTLINE NEMA MOTORS 440TS OPD UE	SCALE 1=5.5		
2127	444TS	33.50	18.00	13.96	14.50			3	ADDED DASHES 2677 & 3177 CN 29200-2314	CTO 03-22-03	JNH	.XX	±.03		REF		
2327	445TS	35.50	20.00	15.96	16.50	14.50	14.50	2	ADDED DASH 2327 CN 29200-2238	NJS 02-22-02	DRS	.XXX	±.005		FMF		
2677	447TS	39.00	23.50	19.46	20.00	16.50	16.50	1	NEW DRAWING - REPLACES 3XSD134FSSK-1 MU38160	TJB 08-30-01	ML	.XXX	±.0005		PREV		
NO.								REVISION		BY & DATE		CHK	ANG	±1/2"	FINISH		
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		xk2d1ss2	SIZE	DRAWING NO.	REV.
3177	449TS	44.00	28.50	24.46	25.00	20.00	20.00			DIST BY				B	XK2D1SS2	4	



THREE PHASE — Y START
 Δ RUN MOTOR




T1 (U1)
 T4 (U2)
 T5 (V2)
 T2 (V1)
 T6 (W2)
 T3 (W1)

T6CK
 T6BM
 T4CC
 T2DL
 T4C

NOTE:
 IEC LEAD MARKINGS ARE NOTED
 IN PARENTHESES

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			DRAWN BLR 10-04-1999		
			DEC.	INCHES		CHK DRS 10-04-1999		
			.X	±.1		APPD TB 10-04-1999		
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML	.XX	±.02	TITLE CONNECTION DIAGRAM 3Ø — WYE START DELTA RUN	SCALE 1=1	
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005		REF	
1	NEW DRAWING	BLR 10-09-1999		.XXXX	±.0005		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±'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 ee7340_In		SIZE A	DRAWING NO. EE7340-LN	PAGE OF 3
			DIST	WA-LB-SB				



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN

CATALOG #: LM32143

OUTLINE: XK2D1SS2-2677

WINDING #: L4474027 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
300&250	224&187	1800	1785&1485	447TS	DP	G	BC

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	348&350	WYE START DELTA RUN	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95.8&95.4	3/4 LOAD EFF:	96.2	1/2 LOAD EFF:	96.2	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	84&84.5	3/4 LOAD PF:	82.5	1/2 LOAD PF:	76	95	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
883 LB-FT	2150	1925 LB-FT 218 %	1950 LB-FT 221 %	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	64 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						
318	315	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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 V NONE Hz

Data Sheet

Date: 1/24/2018

LM32143



Data @ 460 V

Motor Load Data

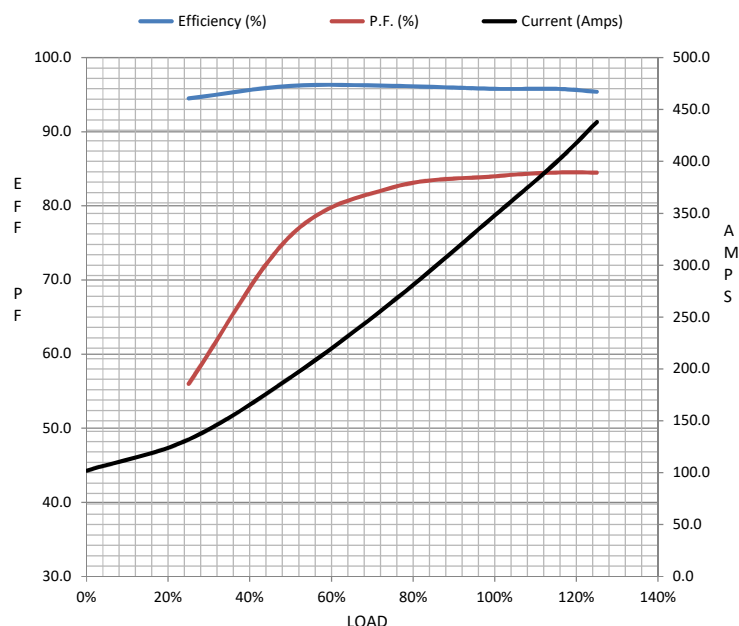
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	102	132	192	265	348	399	438	2,150	
Torque (ft-lb)	0.00	219	439	661	883	1,017	1,106	1,925	
RPM	1800	1795	1793	1790	1785	1,782	1780	0	
Efficiency (%)		94.5	96.2	96.2	95.8	95.8	95.4		
P.F. (%)	3.0	56.0	76.0	82.5	84.0	84.5	84.5	34.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	2,150	1,950	1,400	348	102
Torque (ft-lb)	1,925	1,725	1,950	883	0.00

Information Block

HP	300.0			
Sync. RPM	1800			
Frame	447			
Enclosure	DP			
Construction	TDR			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	64.0 Lb-Ft²			
Ref Wdg	L4474027 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	XK2D1SS2-2677			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0100	0.0070	0.0830	0.1120	2.6080



Speed - Torque Curve

