PRODUCT INFORMATION PACKET

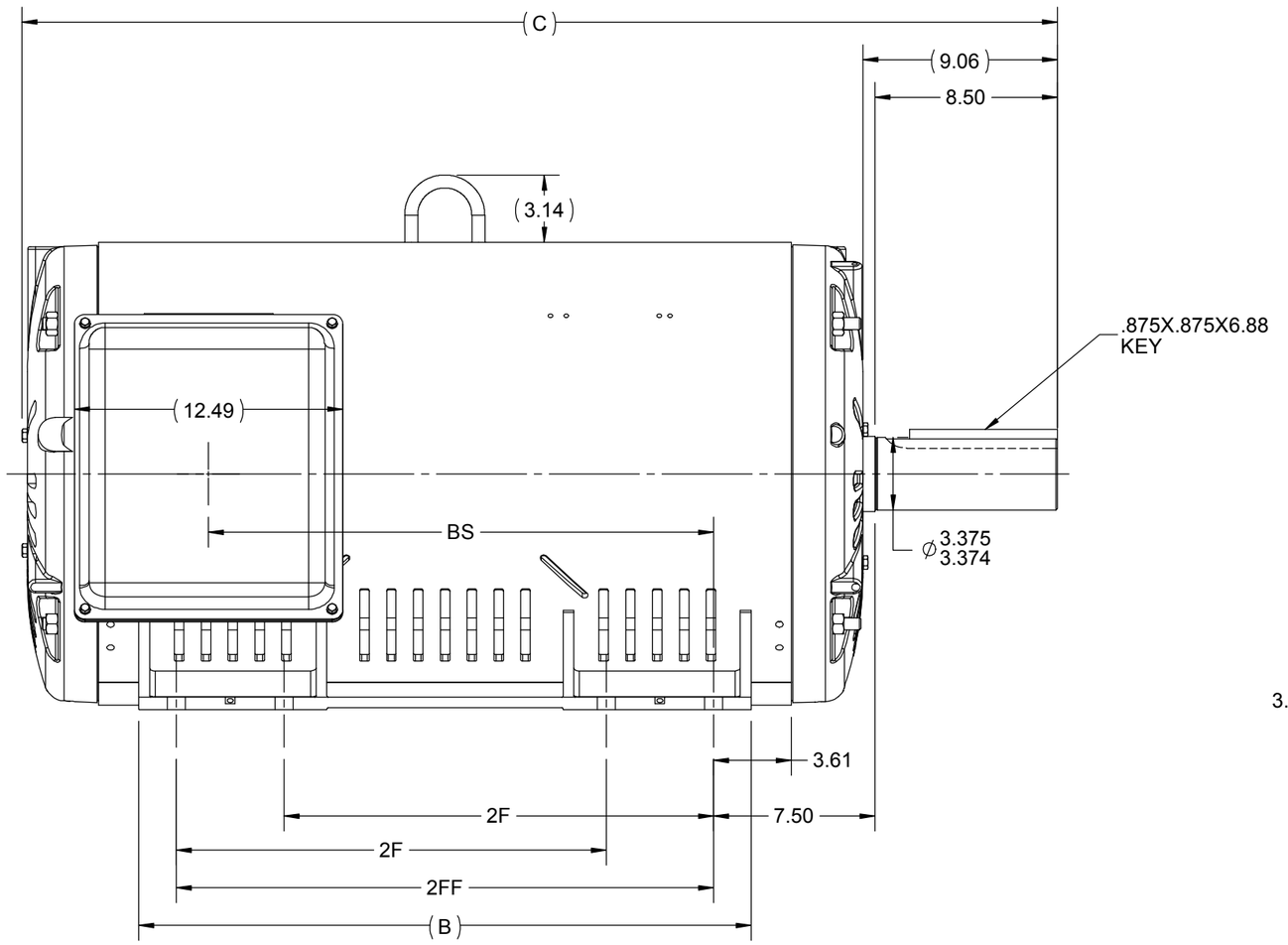
Model No: LM16235
Catalog No: LM16235
General Purpose Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 447T Frame, DP

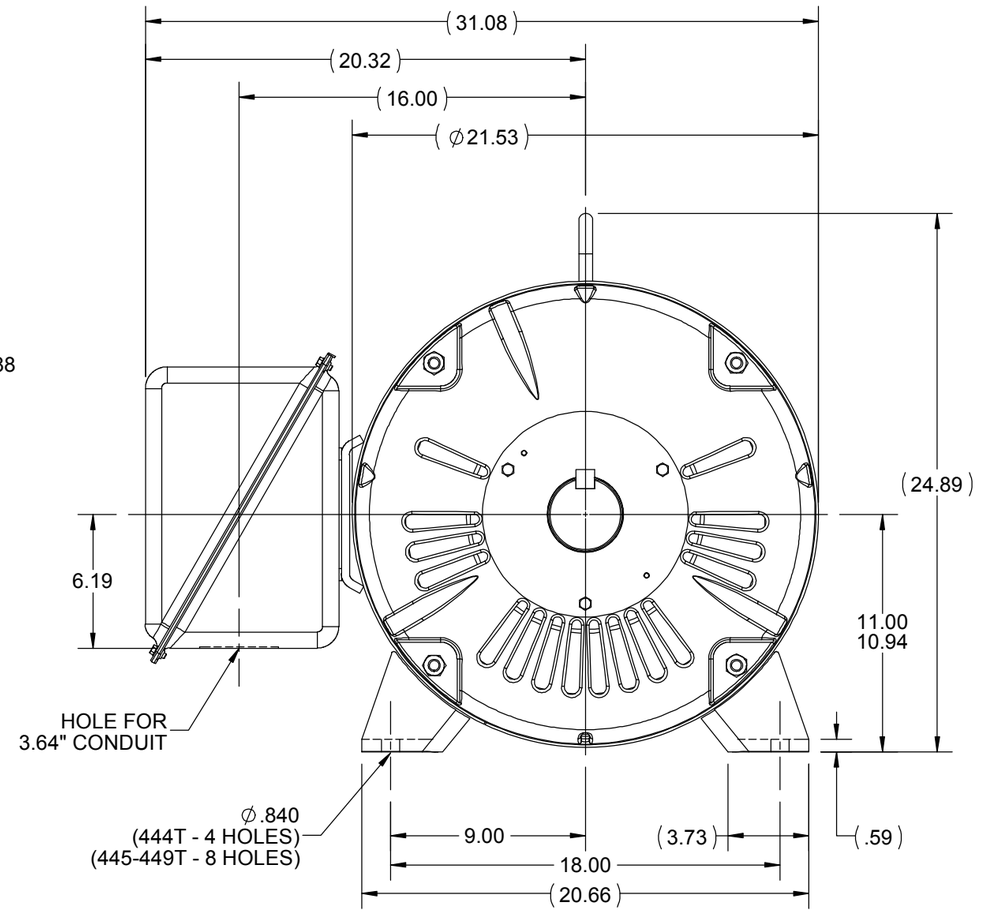
Nameplate Specifications

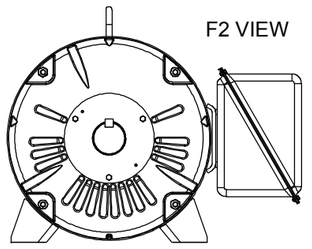
Phase	3	Output HP	250 & 200 Hp
Output KW	187.0 & 149.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	447T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	284 & 278 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6315
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	.015 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	42.93 in
Frame Length	26.77 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	XK2D1SS1-2677	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.

DASH	FRAME	B	C	2F	2FF	BS
2127	444T	18.00	37.73	14.50	- - -	13.02
2327	445T	20.00	39.73	14.50	16.50	15.02
2677	447T	23.50	43.23	16.50	20.00	18.52
3177	449T	23.50	48.23	20.00	25.00	23.52

DRAWING REVISION	REVISION BY	REV DATE/© DATE
F	ZR	08-09-2019
ECO	APPROVED BY	DATE
ECO-0171544	JHA	08-09-2019

ECO DESCRIPTION
UPDATED TO CURRENT STANDARDS

TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 / 5.1 / INCH / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	TJB
DATE	08-09-2001
APPROVED BY	HNH
DATE	08-09-2001
REFERENCE	
THIRD ANGLE PROJECTION	

REGAL® Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
440T FR. - OPD UE

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	XK2D1SS1	1 OF 1

START

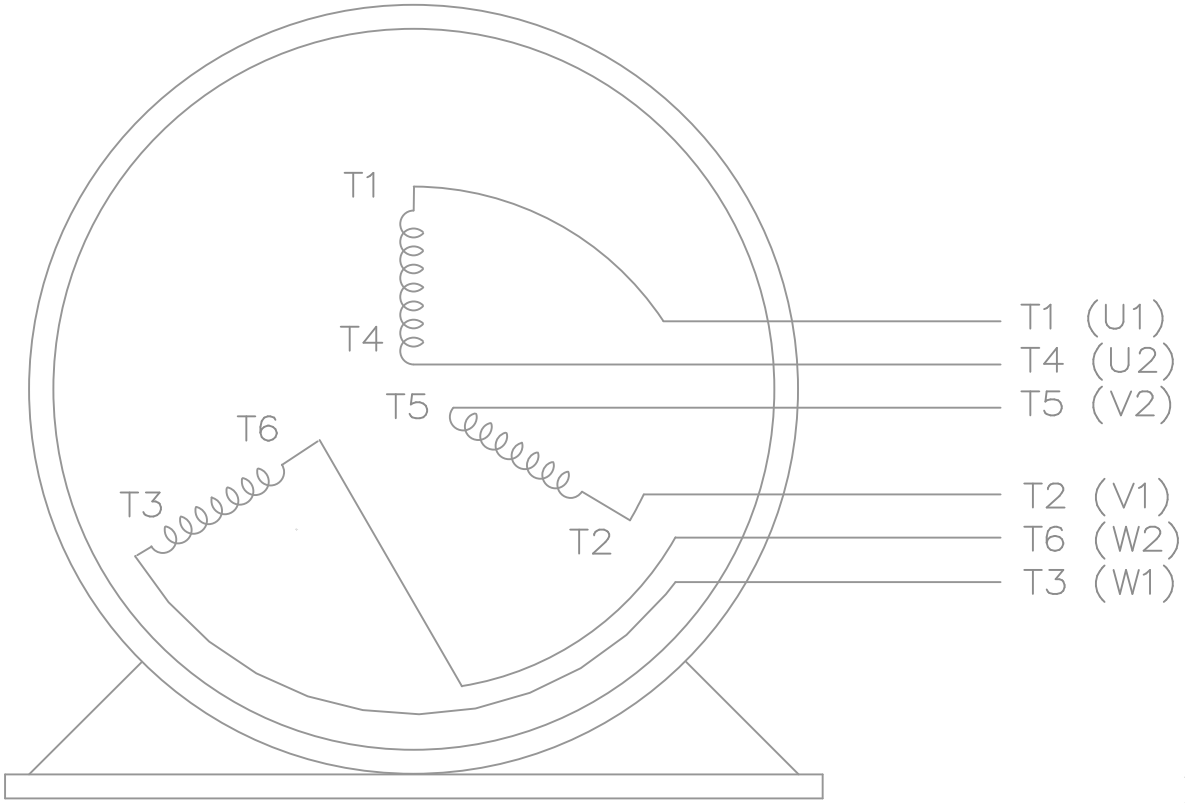
T1 (U1) — L1
T2 (V1) — L2
T3 (W1) — L3
T4 (U2)
T5 (V2)
T6 (W2)

RUN

T1 (U1), T6 (W2) — L1
T2 (V1), T4 (U2) — L2
T3 (W1), T5 (V2) — L3

NOTE:
IEC LEAD MARKINGS ARE NOTED IN PARENTHESES

THREE PHASE – Y START
△ RUN MOTOR



VIEW OF TERMINAL END

T6CK
T6BM
T4CC
T2DL
T4C

NO.	REVISION	BY & DATE	CHK
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML
1	NEW DRAWING	BLR 10-09-1999	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Lincoln MOTORS

TITLE CONNECTION DIAGRAM
3ø – WYE START DELTA RUN

MAT'L.
FINISH
CAD FILE ee7340_ln
RFP
DIST WA-LB-SB

DRAWN BLR 10-04-1999
CHK DRS 10-04-1999
APPD TB 10-04-1999
SCALE 1=1
REF
FMF
PREV

SIZE A
DRAWING NO. EE7340-LN
PAGE OF
REV. 3

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LEESON

CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308-LN

OUTLINE: B-SS601010LN-820

CATLOG # : LM16745

WINDING #: 1842116 FL 6

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&5	3.70&3.70	3600	3505&2890	184TC	TEFC	J	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&380-415	11.8/5.9&7-6.8	ACROSS THE LINE	CONTINUOUS	F3	1.25/1.0	40

FULL LOAD EFF:	89.5&87.5	3/4 LOAD EFF:	89	1/2 LOAD EFF:	88.4	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	89&90	3/4 LOAD PF:	85.5	1/2 LOAD PF:	77.5	87.5	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.5 LB-FT	81 / 40.5	11.5 LB-FT 153 %	22.5 LB-FT 300 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.28 LB-FT^2	5 LB-FT^2	15 SEC.	2	80 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ALUMINUM
207	205						

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

7/20/2018

Data Sheet

Date: 1/18/2018

LEESON

LM16235

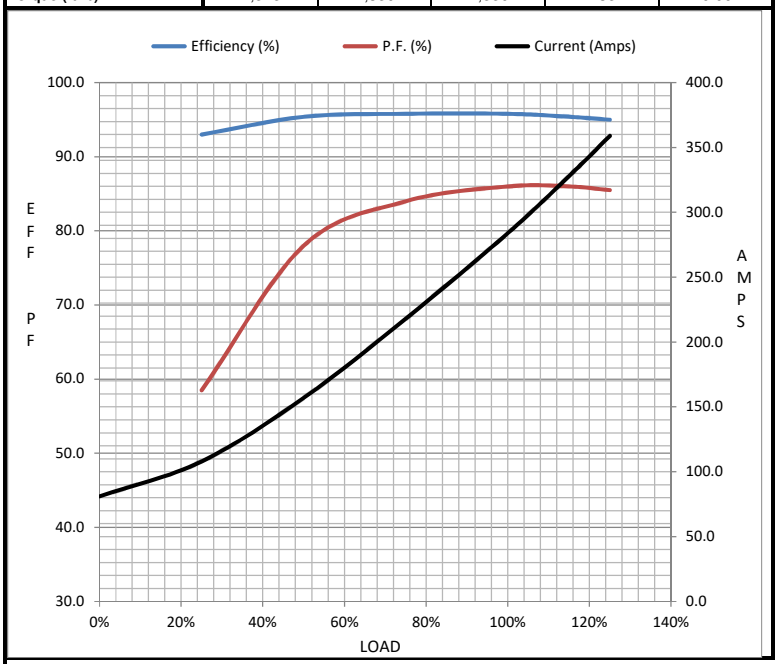
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	81.0	108	157	218	284	328	359	1,725	
Torque (ft-lb)	0.00	183	366	550	735	847	922	1,525	
RPM	1800	1797	1793	1790	1785	1,783	1780	0	
Efficiency (%)		93.0	95.4	95.8	95.8	95.4	95.0		
P.F. (%)	4.5	58.5	78.0	84.0	86.0	86.0	85.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,725	1,550	1,125	284	81.0
Torque (ft-lb)	1,525	1,350	1,550	735	0.00



Information Block

HP	250.0	
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	50	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	64.0	Lb-Ft²
Ref Wdg	L4474042 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	XK2D1SS1-2677	
Conn. Diag	A-EE7340-LN	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0070	0.0070	0.1010	0.1350	3.2260

Speed -Torque Curve