

PRODUCT INFORMATION PACKET

Model No: LM21829

Catalog No: LM21829

Automotive Duty Motor, 3 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 184UC Frame, TEFC



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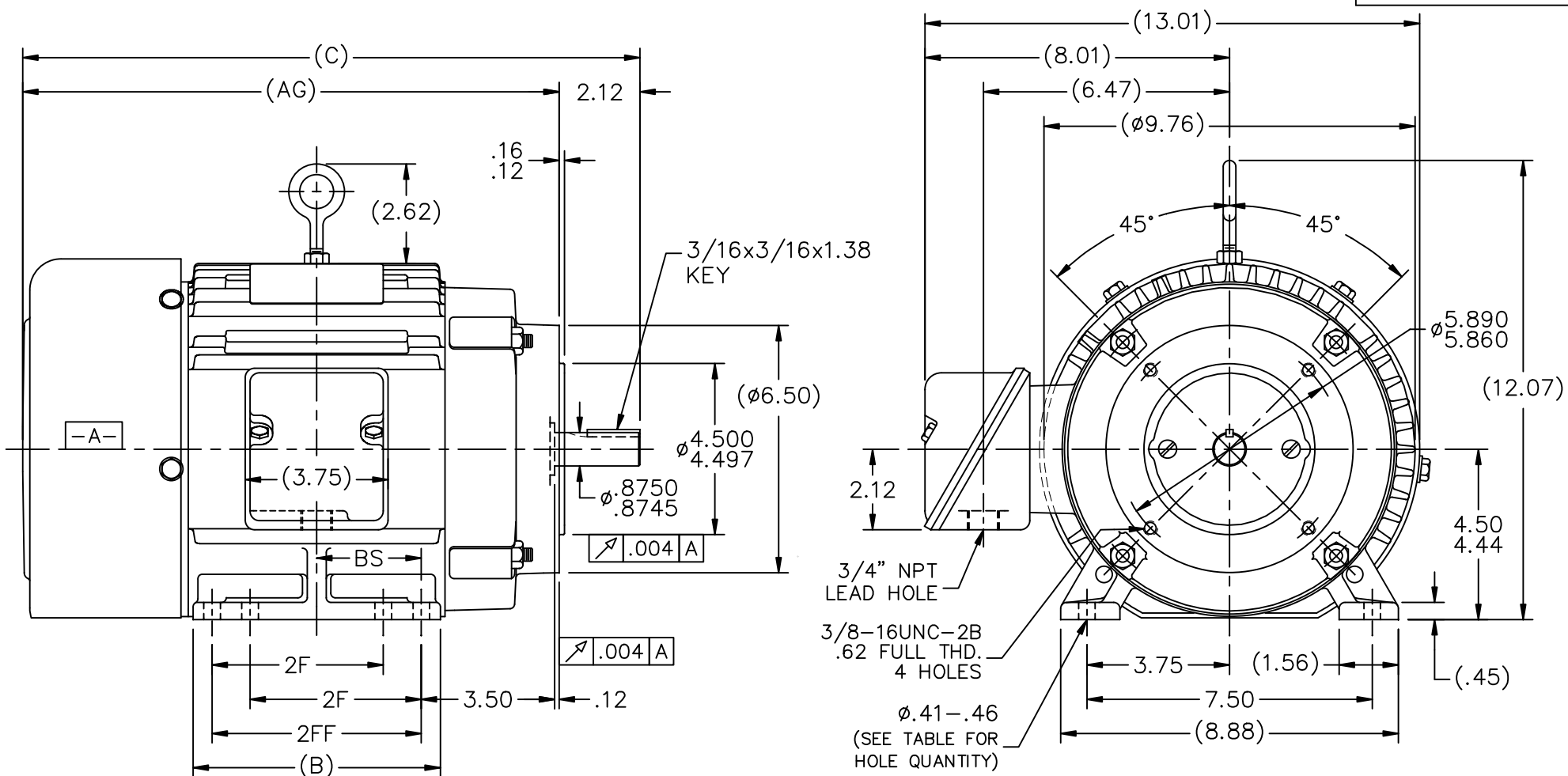
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	460 V
Current	3.8 A	Speed	3525 rpm
Service Factor	1	Phase	3
Efficiency	87.5 %	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	184UC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	65 °C
Drive End Bearing Size	207	Opp Drive End Bearing Size	205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

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	Cast Iron
Shaft Type	U	Overall Length	16.22 in
Frame Length	6.75 in	Shaft Diameter	0.875 in
Shaft Extension	2.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	A-SS68363LN-675	Connection Drawing	A-EE7300-LN

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- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

575	182T	15.22	13.10	5.50	---	4.50	2.25	4	F1 ONLY
675	182T	16.22	14.10	6.50	4.50	5.50	2.75	8	F1 ONLY
675	184T	16.22	14.10	6.50	4.50	5.50	2.75	8	F1 OR F2
DASH	FRAME	C	AG	B	2F	2FF	BS	FOOT HOLES	MOUNTING

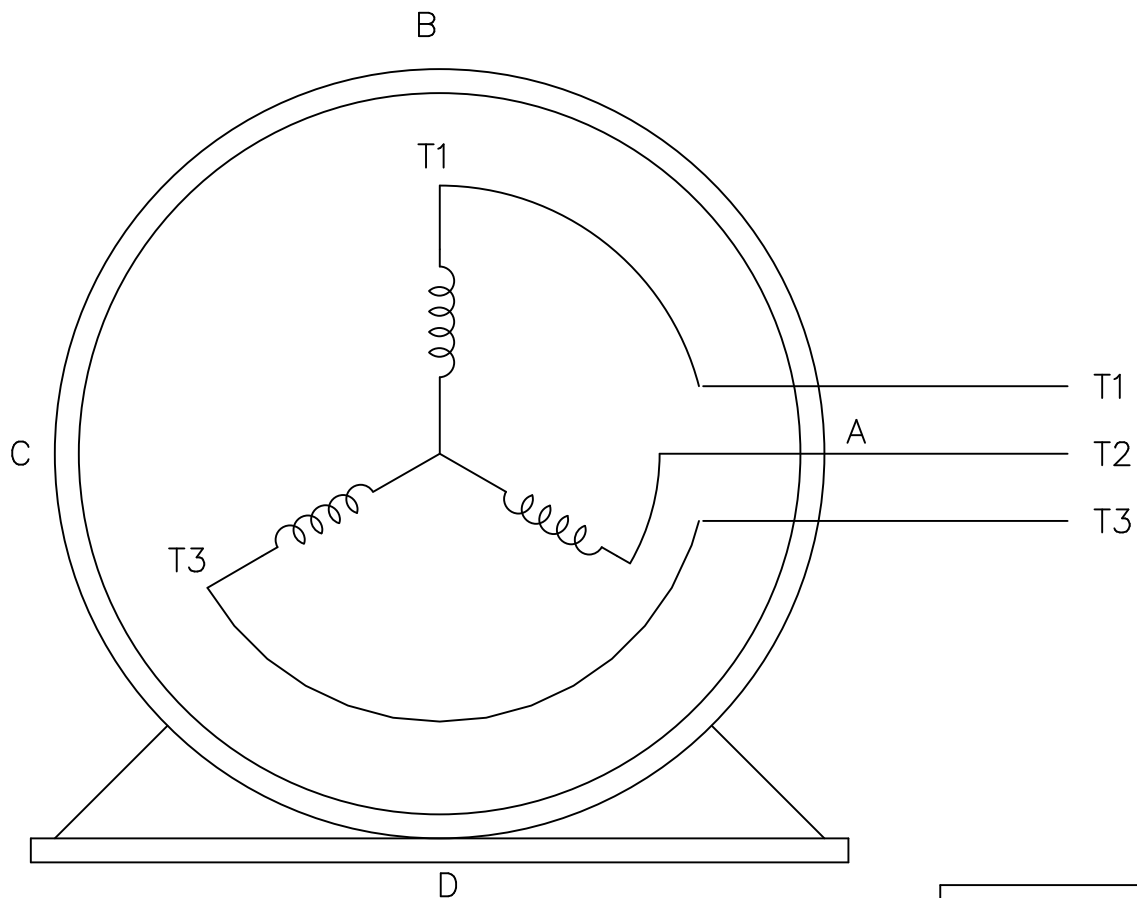
NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN DRS 05-25-2000			
					DEC.	INCHES					
5	ADDED "2FF" COLUMN TO TABLE	MU98931	MSG 3/1/2011	SJW	.X	±.1		CHK ML 05-26-2000			
4	CHANGE "T" TO "U"	CN 30197	CTO 12-12-2000	ML	.XX	±.03	TITLE OUTLINE - TEFC - C'FACE 180T FR. - CAST IRON C'BOX	APPD TB 05-26-2000			
3	CHANGED TO CAST IRON C'BOX	CN 29200-719	CTO 08-16-2000	ML	.XXX	±.005		SCALE 1=4			
2	REVISED BASE TO 8 HOLES	CN 29200-634	MSG 07-24-2000	ML	.XXXX	±.0005	MAT'L.	REF			
								FMF			
								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	05-26-2000	CAD FILE	SS68363LN	SIZE A	DRAWING NO. SS68363LN	PAGE OF	REV. 5



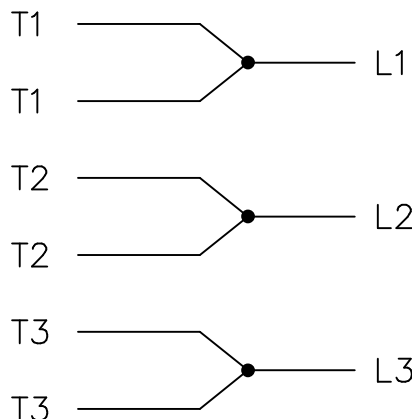
THREE PHASE – SINGLE VOLTAGE
MOTOR – CONDUIT BOX @ 'A'

EE7300-LN

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



IF MOTOR HAS
6 LEADS




A-9806 DECAL

VIEW OF TERMINAL END

OPTIONAL CORD
CONNECTION

L1 WHITE
L2 RED
L3 BLACK

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 08-13-1999		
				DEC.	INCHES		CHK ML 08-13-1999		
				.X	±.1		APPD GK 08-13-1999		
				.XX	±.02		SCALE 1=1		
2	ADDED OPTIONAL CORD CONNECTION PER MU47226	CTO 03-31-2004	PJB	.XXX	±.005	TITLE CONNECTION DIAGRAM SINGLE VOLT – 3Ø MOTOR	REF		
1	NEW DRAWING	CTO 08-13-1999		.XXXX	±.0005		MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV		
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				DIST WP			A	EE7300-LN	2



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7300-LN

CATALOG : LM21829

OUTLINE: A-SS68363LN-675

WINDING #: 182258 7

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	3600	3525	184UC	TEFC	K	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	3.8	ACROSS THE LINE	CONTINUOUS	F3	1.0	65

FULL LOAD EFF:	87.5	3/4 LOAD EFF:	86.5	1/2 LOAD EFF:	84	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	85	3/4 LOAD PF:	79	1/2 LOAD PF:	70	85.5		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	29	9 LB-FT 200 %	16 LB-FT 356 %	32

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.23 LB-FT^2	4 LB-FT^2	15 SEC.	2	85 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 - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	U	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
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

Data Sheet

Date: 1/31/2018

LM21829



Data @ **460 V**

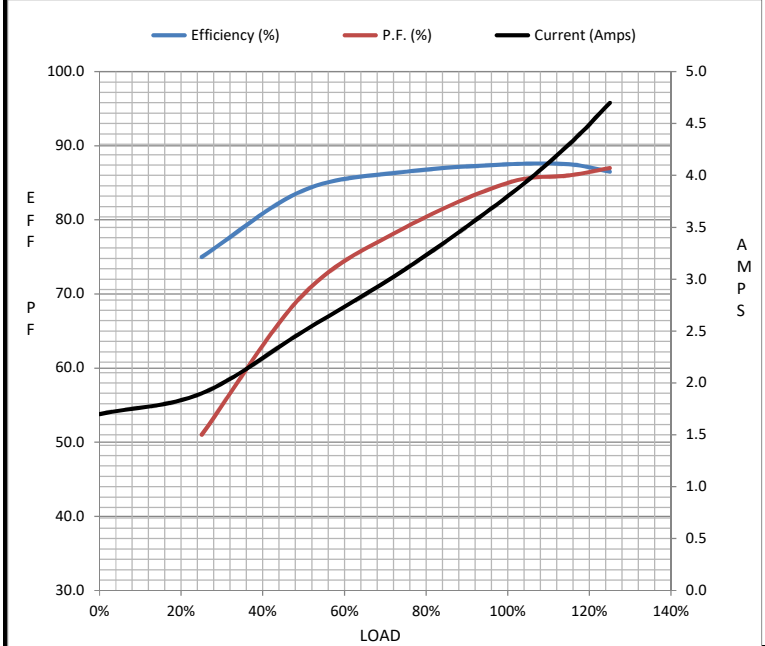
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.70	1.90	2.50	3.1	3.8	4.3	4.7	29.0
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.2	5.6	9.0
RPM	3600	3582	3565	3545	3525	3,515	3505	0
Efficiency (%)		75.0	84.0	86.5	87.5	87.5	86.5	
P.F. (%)	11.0	51.0	70.0	79.0	85.0	86.0	87.0	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1100	2985	3525	3600
Current (Amps)	29.0	29.5	18.0	3.8	1.70
Torque (ft-lb)	9.0	10.5	16.0	4.5	0.00

Information Block				
HP	3.0			
Sync. RPM	3600			
Frame	182			
Enclosure	TEFC			
Construction	TFS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	32 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.23 Lb-Ft ²			
Ref Wdg	182258 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS68363LN-675			
Conn. Diag	A-EE7300-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.7780	2.0150	7.3220	2.4500	167.4420



Speed - Torque Curve

