

PRODUCT INFORMATION PACKET

Model No: LM21192

Catalog No: LM21192

Speed Ratio Motors, TEFC, 5 HP, 3 Ph, 60 Hz, 230/460 V, 3475 RPM, 184T Frame



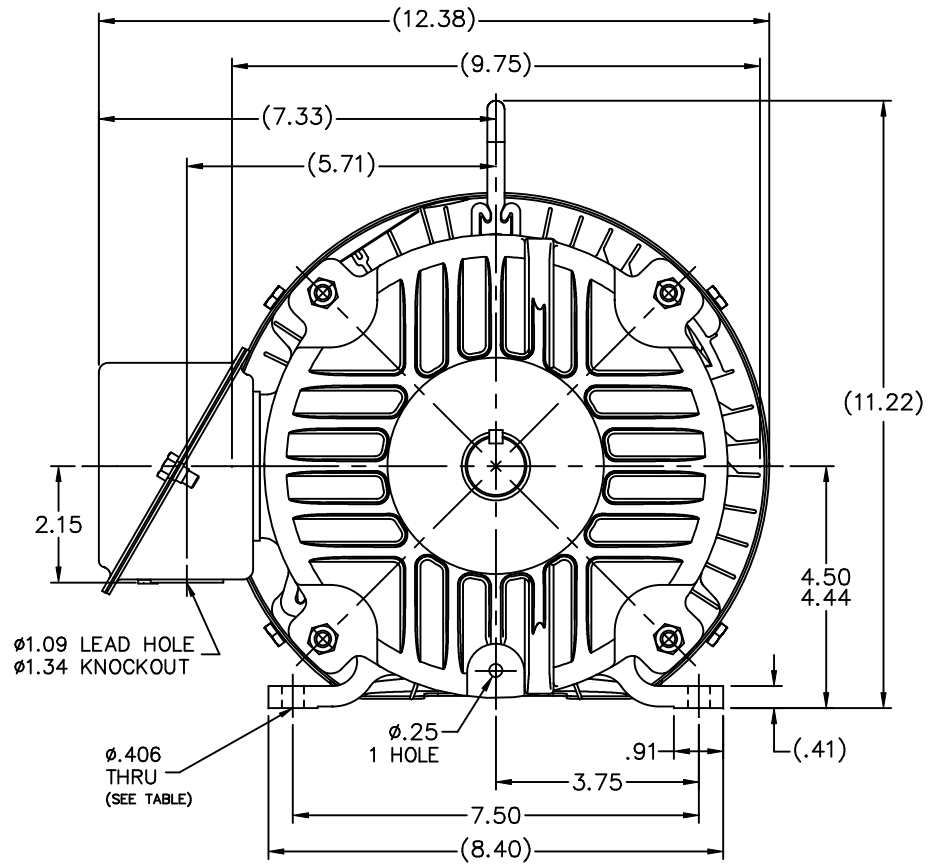
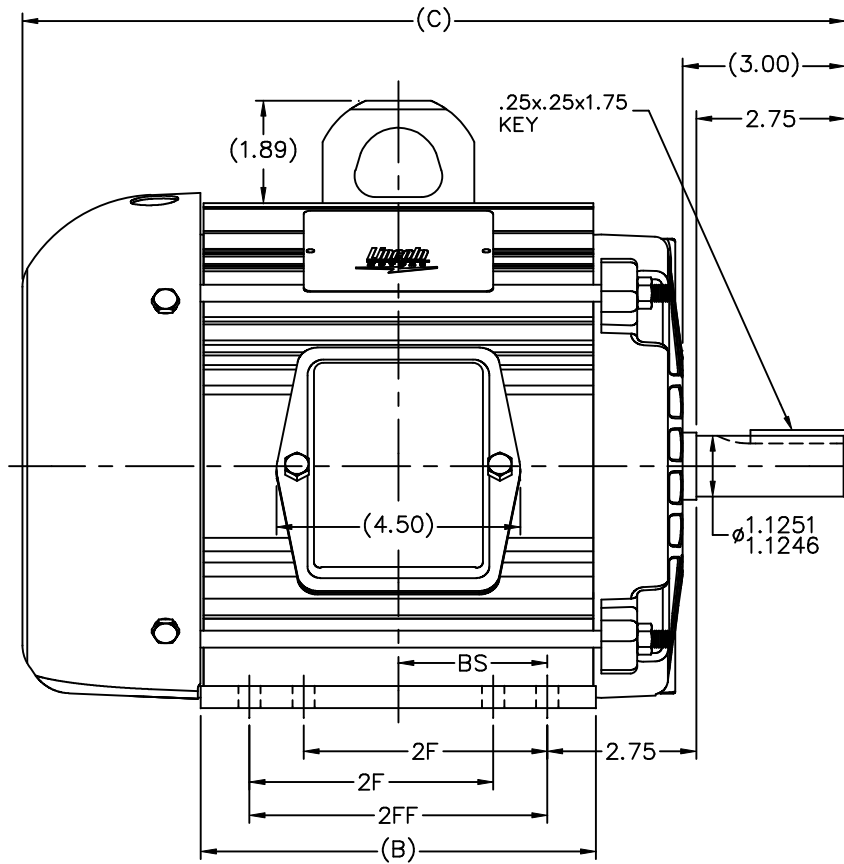
Regal and are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	12.4/6.2 A	Speed	3475 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	J
Frame	184T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °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 Inverter Duty	Starting Method	Inverter Only
Poles	2	Rotation	Reversible
Resistance Main	2.12 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	15.19 in
Frame Length	7.30 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 4:1		
Connection Drawing	A-EE7308T-LN	Outline Drawing	B-SS601006LN-720



NOTES:

1. CONDUIT BOX BE ROTATED IN 90° STEPS.
2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FR.	C	BS	B	2FF	2F	FOOT HOLE	NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV
620	182T	14.19	2.25	6.30	4.50	---	4	12	REVISED 'B' DIMENSION IN DASH TABLE ECN 14167	MSG 8/19/2009	BW	UNLESS SPECIFIED			
720	182/4T	15.19	2.75	7.30	5.50	4.50	8	11	DE EXTN WAS 3.1 CHANGED TO 3.0	SVL 7/22/2009	ML	DEC.	INCHES		
720	184T	15.19	2.75	7.30	5.50	---	4	10	REVISED DASH TABLE INFORMATION CN 32829	DRS 09-10-2004	ML	.X	±.1		
820	184T	16.19	3.25	8.30	---	5.50	8	9	REVISED -820, 2FF WAS 5.50 & 2F WAS BLANK	TAT 06-23-2004	ML	.XX	±.03		
								8	RE-ISSUE CLARIFIED HOLES	TAT 01-30-2004	ML	.XXX	±.005		
								7	CHANGED 2F TO 2FF	TAT 01-27-2004	ML	.XXXX	±.0005		
									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	ANG	±1/2"	FINISH	PREV
											DIST	LB			
											SIZE	DRAWING NO.	PAGE	OF	REV.
											B	SS601006LN	12		



TITLE OUTLINE
180T FR. - TEFC

DRAWN BLR 01-13-2000

CHK ML 01-18-2000

APPD GK 01-18-2000

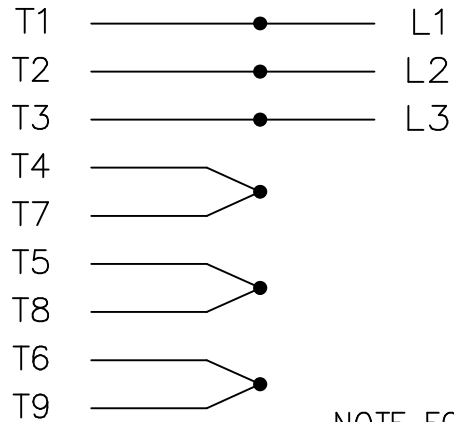
SCALE 7=16

REF

FMF

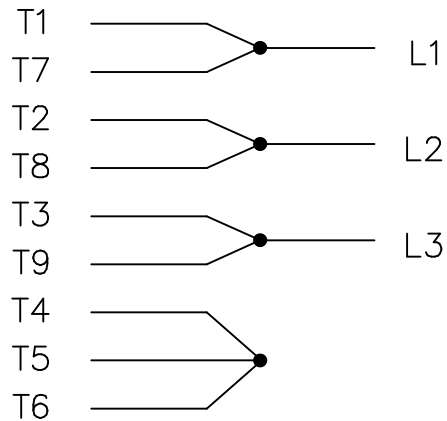
PREV

HIGH VOLTAGE



NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

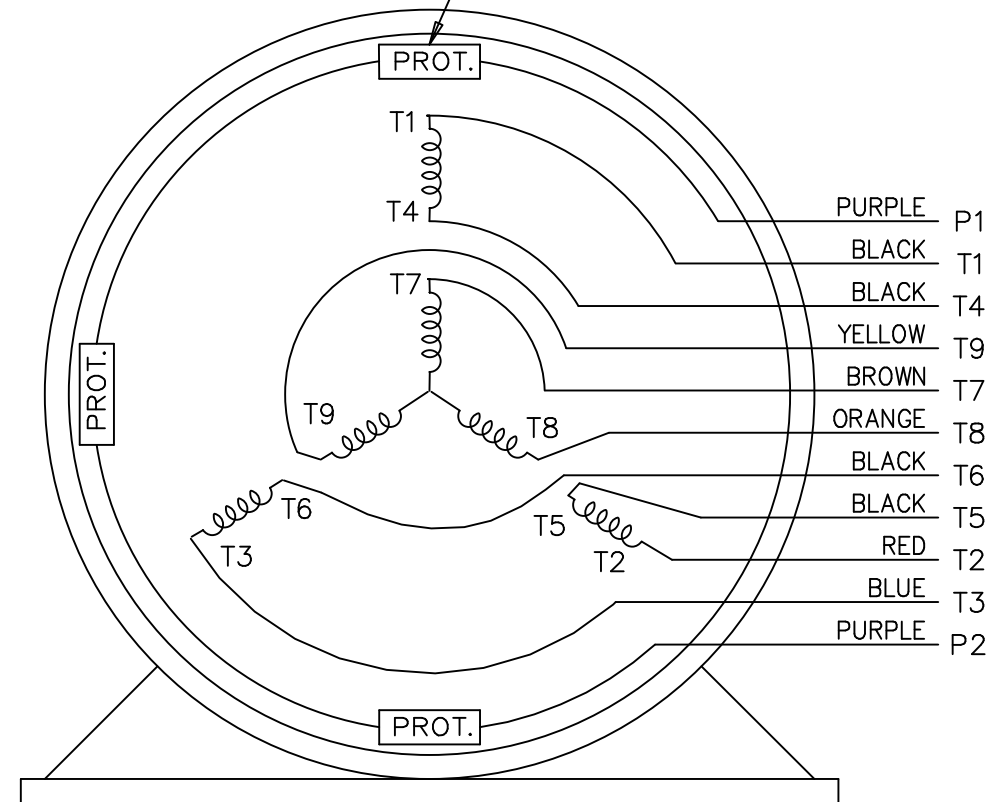
LOW VOLTAGE



THREE PHASE DUAL VOLTAGE MOTOR

EE7308T-LN

THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN BJK 07-16-2002						
				DEC.	INCHES		CHK	DRS	07-18-2002				
				.X	±.1		APPD	GK	07-18-2002				
				.XX	±.02		SCALE 1=1						
2	ADDED COLORS TO "T & P" LEADS	CN 40494	MSG 08-08-2006	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM 3 PHASE – DUAL VOLTAGE MOTOR				REF		
1	NEW DRAWING		BJK 07-18-2002	DRS	.XXXX	±.0005	MAT'L.				FMF		
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 ee7308t_ln			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST LB					A	EE7308T-LN			2



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LN

CAT #: LM21192

OUTLINE: B-SS601006LN-720

WINDING: K1842140

R2 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	3600	3475	184T	TEFC	TFL	J	INC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	12.4/6.2	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	87.5	1/2 LD EFF	86.5	GTD EFF		ELECT. TYPE	
F.L. PF	88.0	3/4 LD PF	84.0	1/2 LD PF	75.5	85.5		SQ CAGE INV DUTY	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
7.5 LB-FT	46.0	20.5 LB-FT 273%	27.5 LB-FT 367%	50	

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA		0.24 LB-FT²	0 LB-FT²	0 SEC.	0	80 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	1144 STRESSPROOF (C-223)	ALUMINUM
207 205						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
1.358	1.511	5.265	3.573	174.376	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 4:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

DATE: 9/10/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/10/2018

LM21192



Data @ 460 V

Motor Load Data

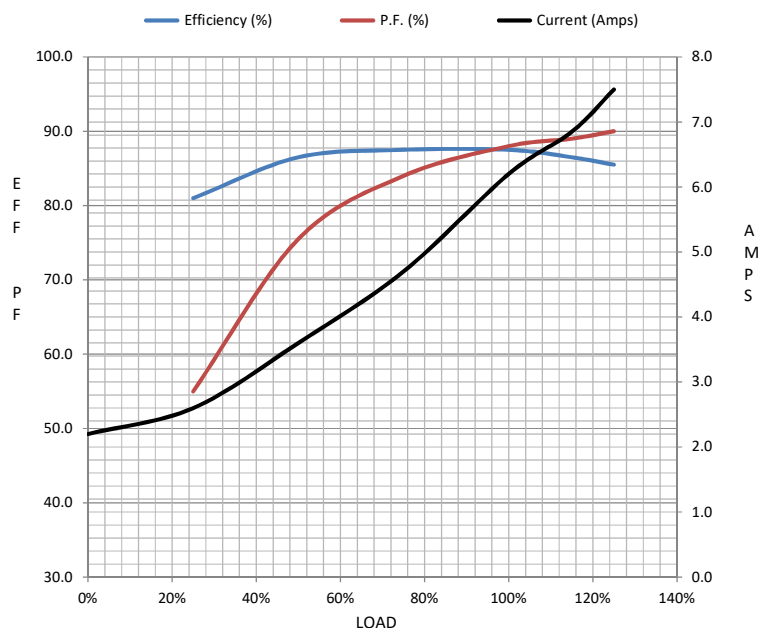
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.20	2.60	3.6	4.7	6.2	6.9	7.5	46.0	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.5	8.5	9.5	20.5	
RPM	3600	3568	3540	3505	3475	3,459	3435	0	
Efficiency (%)		81.0	86.5	87.5	87.5	86.5	85.5		
P.F. (%)	11.5	55.0	75.5	84.0	88.0	89.0	90.0	52.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2745	3475	3600
Current (Amps)	46.0	43.0	34.0	6.2	2.20
Torque (ft-lb)	20.5	18.5	27.5	7.5	0.00

Information Block

HP	5.0			
Sync. RPM	3600			
Frame	184			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	50 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.24 Lb-Ft²			
Ref Wdg	K1842140 R2			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 4:1			
Outline Dwg	B-SS601006LN-720			
Conn. Diag	A-EE7308T-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.3580	1.5110	5.2650	3.5730	174.3760



Speed - Torque Curve

