

# PRODUCT INFORMATION PACKET

Model No: LM21193

Catalog No: LM21193

Speed Ratio Motors, TEFC, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1750 RPM, 184T Frame



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### Nameplate Specifications

Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	13.4/6.7 A	Speed	1750 rpm
Service Factor	1	Phase	3
Efficiency	87.5 %	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	L
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	55
Number of Speeds	1		

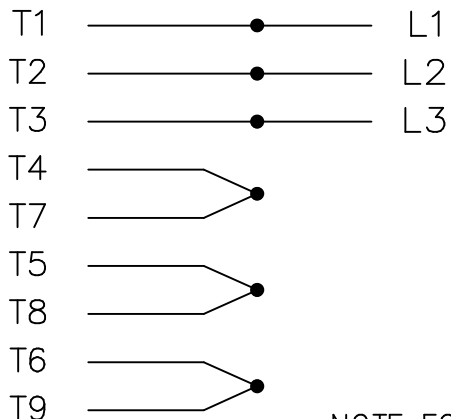
### Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	2.46 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	16.19 in
Frame Length	8.20 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 4:1		
Outline Drawing	B-SS601006LN-820	Connection Drawing	A-EE7308T-LN



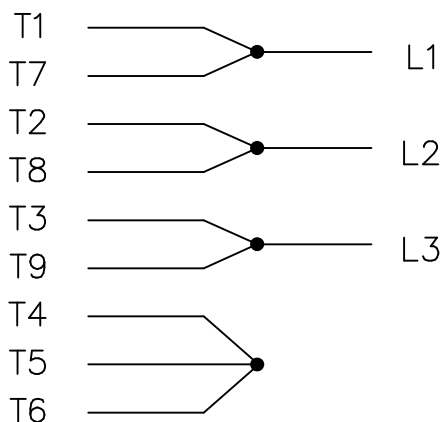
THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

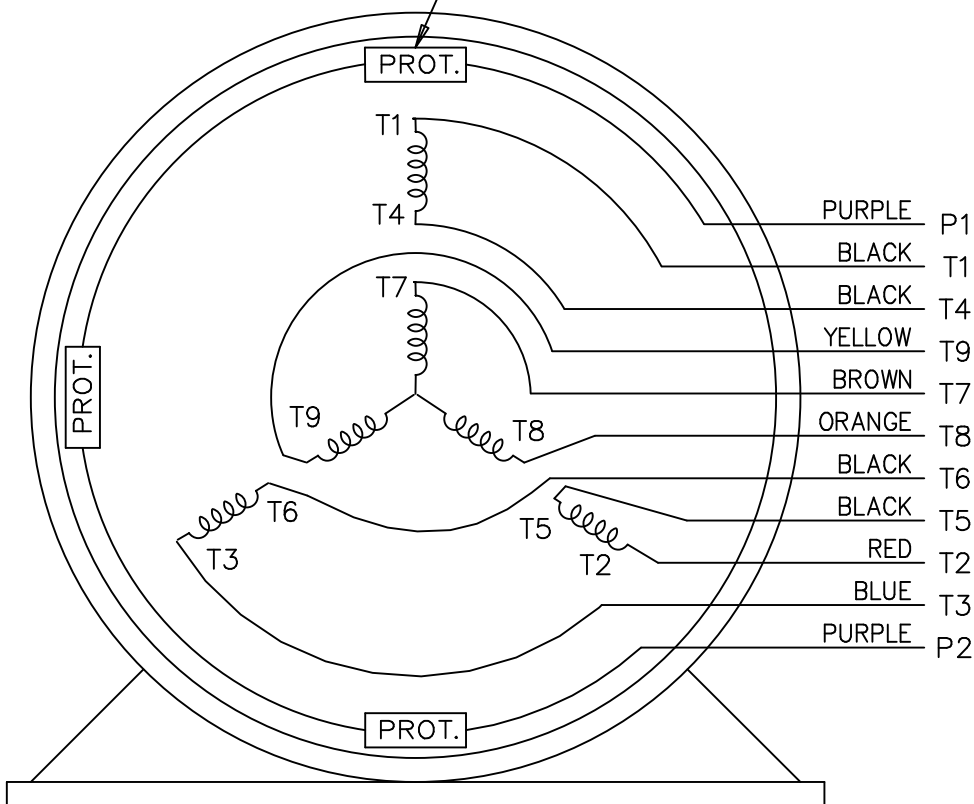


NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST FOR COMMON CONNECT:  
HIGH VOLT: CONNECT P1 TO T1  
THEN P2 TO L1  
LOW VOLT: CONNECT P1 TO T1 & T7,  
THEN P2 TO L1

LOW VOLTAGE



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						
1	NEW DRAWING		BJK 07-18-2002	DRS	.XXXX	±.0005	MAT'L.						
NO.	REVISION		BY & DATE	CHK	ANG	±7'30"	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 ee7308t_ln			SIZE	DRAWING NO.	PAGE	OF	REV.	
				DIST	LB				A	EE7308T-LN			2



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

**CONN. DIAGRAM:** A-EE7308T-LN

**OUTLINE:** B-SS601006LN-820

**CATALOG #:** LM21193

**WINDING #:** K1844217 R8 1

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.70	1800	1750	184T	TEFC	L	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	13.4/6.7	INVERTER ONLY	CONTINUOUS	F3	1.0	40

FULL LOAD EFF:	87.5	3/4 LOAD EFF:	88.5	1/2 LOAD EFF:	87.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	79	3/4 LOAD PF:	72	1/2 LOAD PF:	59	85.5	SQ CAGE INV DUTY

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	114 / 57	40 LB-FT 267 %	61 LB-FT 407 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.42 LB-FT^2	- LB-FT^2	- SEC.	-	115 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	T	NONE	NONE	1144 STRESSPROOF (C-223)	ALUMINUM
207	205						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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\*

<b>INVERTER TORQUE:</b> CONSTANT 4:1
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE NONE NONE NONE NONE PPR
<b>BRAKE:</b> NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/23/2018

LM21193



Data @ **460 V**

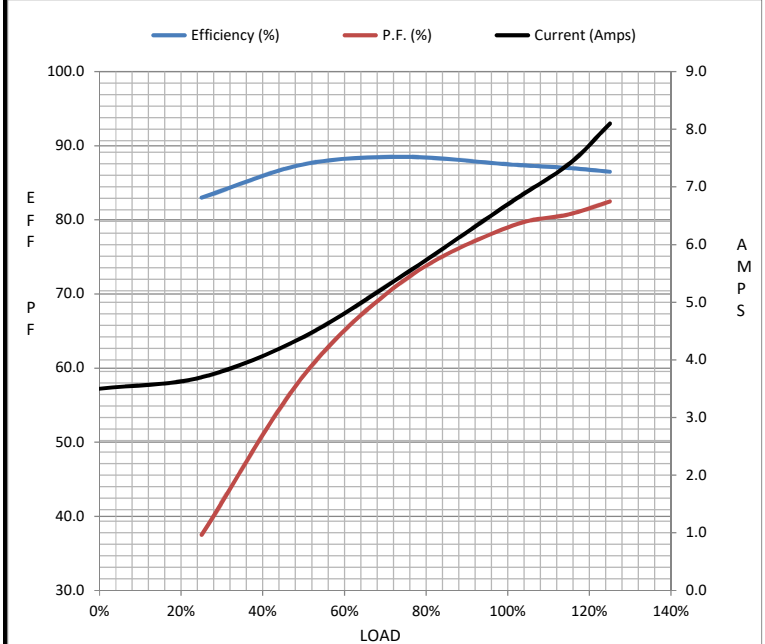
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.5	3.7	4.4	5.5	6.7	7.4	8.1	57.0
Torque (ft-lb)	0.00	3.7	7.4	11.2	15.0	17.0	19.0	40.0
RPM	1800	1790	1775	1765	1750	1.746	1740	0
Efficiency (%)		83.0	87.5	88.5	87.5	87.0	86.5	
P.F. (%)	6.0	37.5	59.0	72.0	79.0	80.8	82.5	52.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1425	1750	1800
Current (Amps)	57.0	55.0	38.0	6.7	3.5
Torque (ft-lb)	40.0	40.0	61.0	15.0	0.00

Information Block				
HP	5.0			
Sync. RPM	1800			
Frame	184			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.0			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.42 Lb-Ft <sup>2</sup>			
Ref Wdg	K1844217 R8			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 4:1			
Outline Dwg	B-SS601006LN-820			
Conn. Diag	A-EE7308T-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.6900	1.1680	3.2550	4.7910	77.6790



Speed - Torque Curve

