

PRODUCT INFORMATION PACKET

Model No: LM33491

Catalog No: LM33491

Encoder Motors, TENV, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1755 RPM, 184TC Frame



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Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.2/4.1 A	Speed	1755 rpm
Service Factor	1	Phase	3
Efficiency	87.5 %	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	N
Frame	184TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

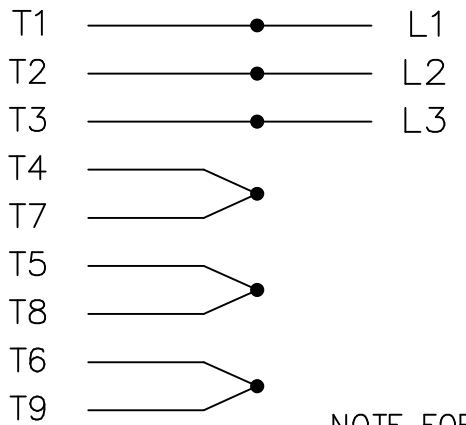
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	19.84 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	036130LN-950	Connection Drawing	EE7308T-LN

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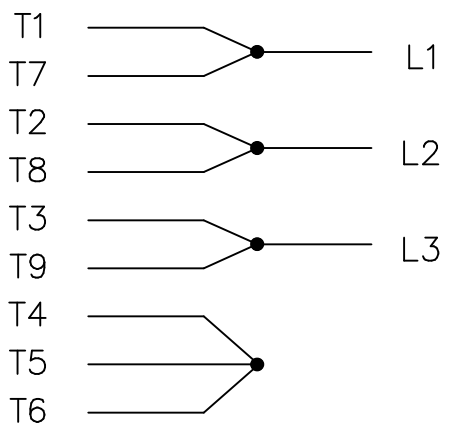
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

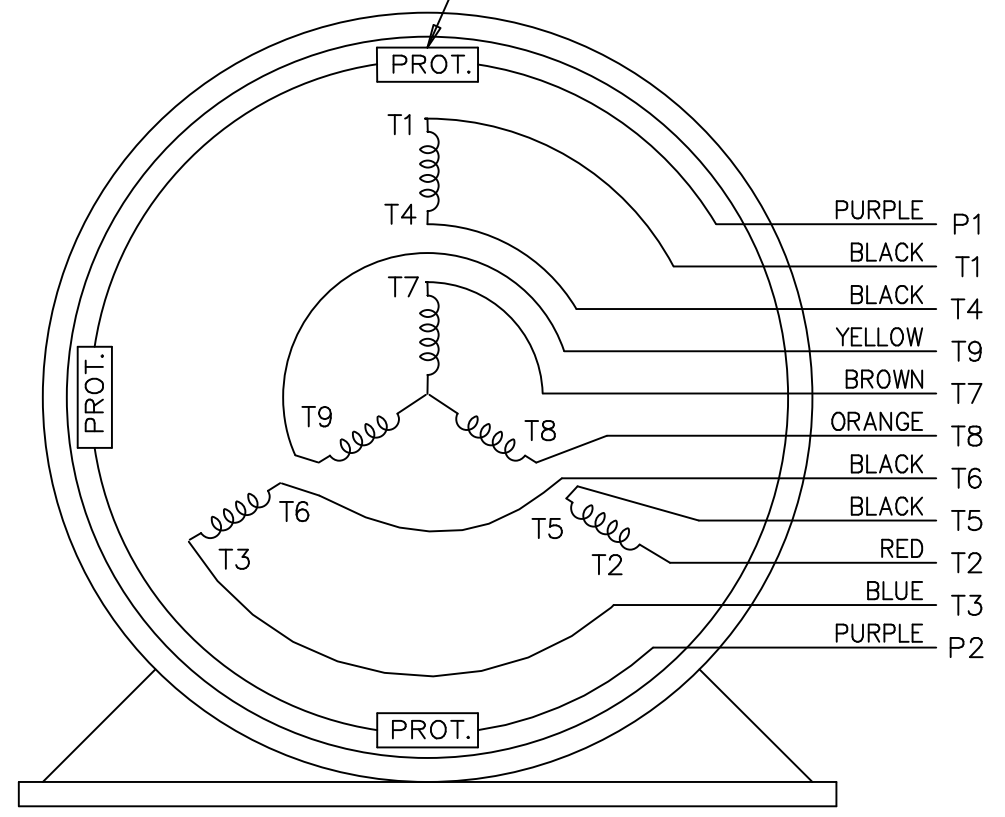


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

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		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

Data Sheet

Date: 2/1/2018

LM33491



Data @ 460 V

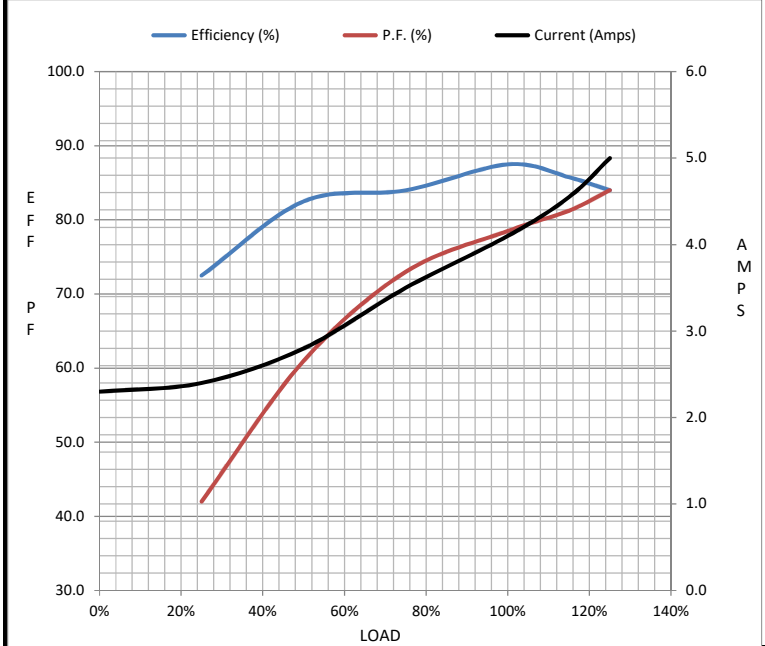
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.30	2.40	2.80	3.5	4.1	4.6	5.0	46.0
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.2	11.3	34.0
RPM	1800	1790	1780	1765	1755	1.751	1745	0
Efficiency (%)		72.5	82.5	84.0	87.5	85.8	84.0	
P.F. (%)	10.5	42.0	61.0	73.0	78.5	81.3	84.0	60.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	130	1318	1755	1800
Current (Amps)	46.0	46.9	31.8	4.1	2.30
Torque (ft-lb)	34.0	34.0	49.3	9.0	0.00

Information Block				
HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.42 Lb-Ft ²			
Ref Wdg	T84180 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 100:1			
Outline Dwg	036130-950			
Conn. Diag	EE7308T-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.5780	1.8020	2.8380	2.0910	94.1300



Speed - Torque Curve

