

# PRODUCT INFORMATION PACKET



Model No: 825190.00

Catalog No: 825190.00

Explosion Proof Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,  
184TC Frame, EPFC



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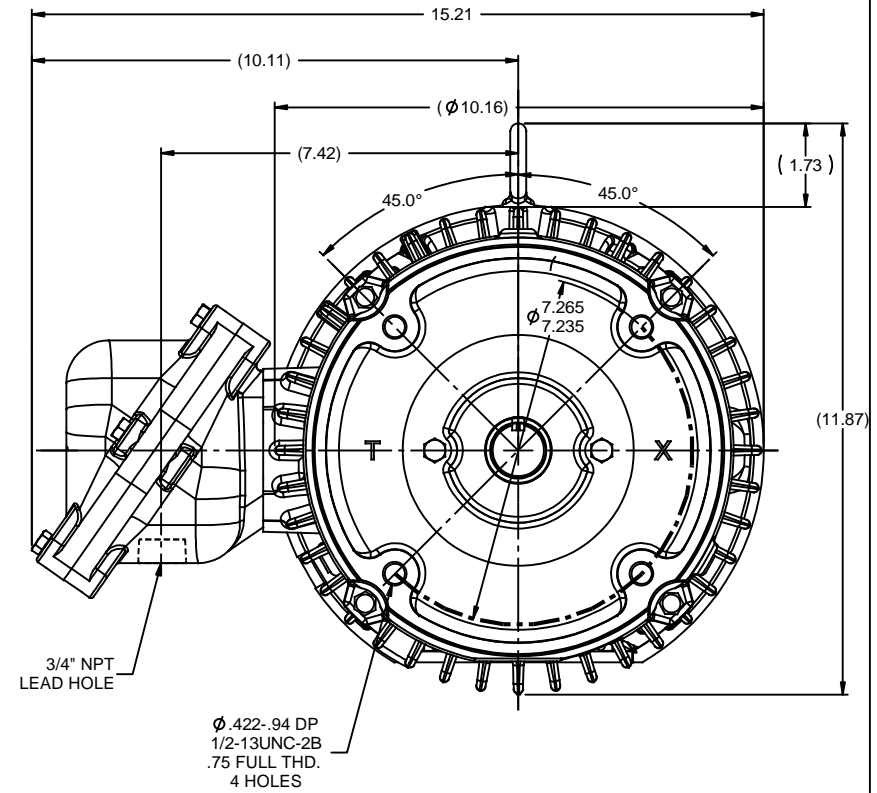
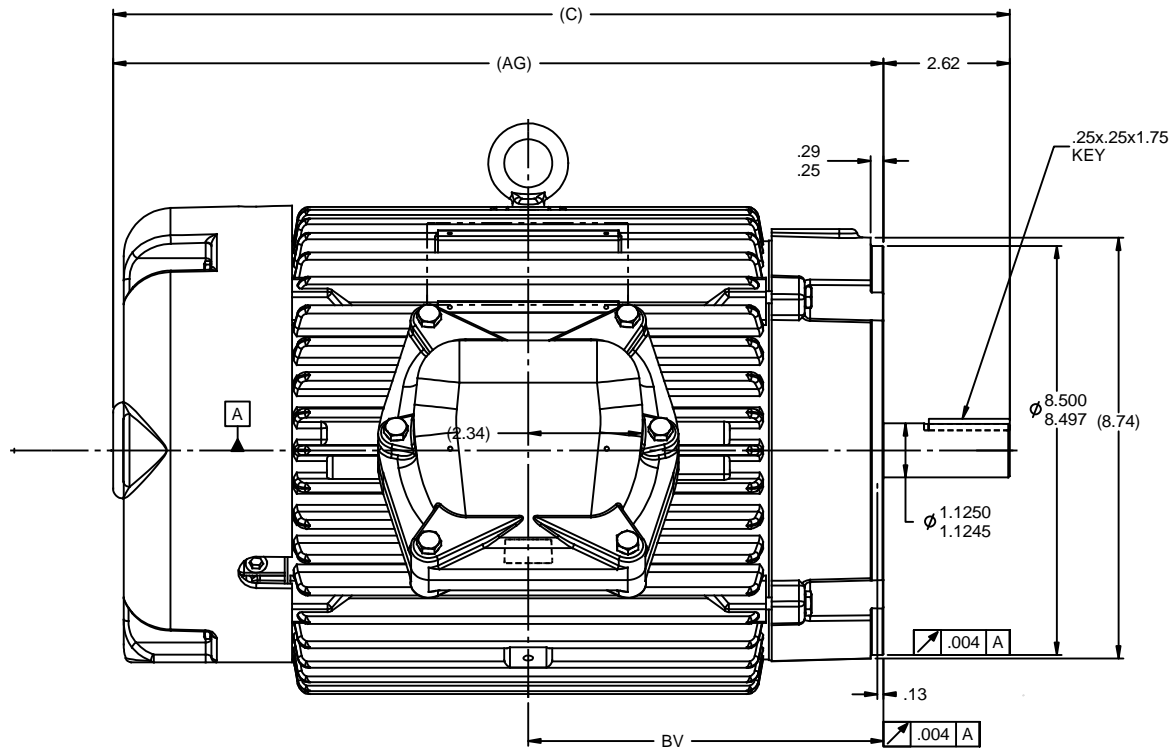


## Nameplate Specifications

Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	3505 & 2930 rpm	Service Factor	1.0 & 1.0
Frame	184TC	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	88.5 & 87.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	11.8/5.9 & 9/4.5 A	Power Factor	88.5
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	J
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	No	CSA	N
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3C

## Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	2.32 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	18.62 in
Frame Length	10.01 in	Shaft Diameter	1.125 in
Shaft Extension	2.62 in	Assembly/Box Mounting	F1 Only
Connection Drawing	EE7308T-LE	Outline Drawing	035694LE-1000



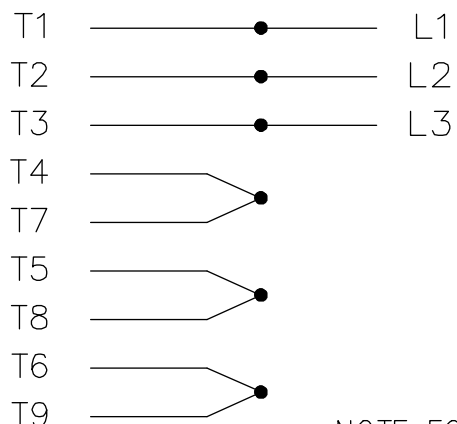
## NOTES:

1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
2. CONDUIT BOX CAN ROTATED IN 90° STEPS.
3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180° THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTUREER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ. TITLED "MOTORS AND GENERATORS REBUILT FOR USE IN HAZARDOUS LOCATIONS".

1000	182/184	18.62	16.00	7.38
DASH	FRAME	C	AG	BV

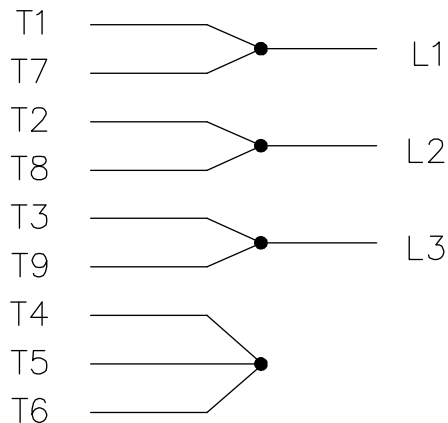
		TOLERANCES UNLESS SPECIFIED		<b>ELECTRIC MOTORS GEARMOTORS AND DRIVES</b>	DRAWN ST 5-26-2009
		DEC	INCHES		CHK VV 5-28-2007
		X	±.1		APPR
		XX	±.03		SCALE 7:16
		XXX	±.005		REF 035694
		XXXX	±.0005	MATL	FMF
NO	REVISION	BY & DATE	CHK ANG ±7°30'	FINISH	PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY 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 035694LE
				DIST WA - NLV	SIZE B
					DRAWING NO 035694LE
					REV

# 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

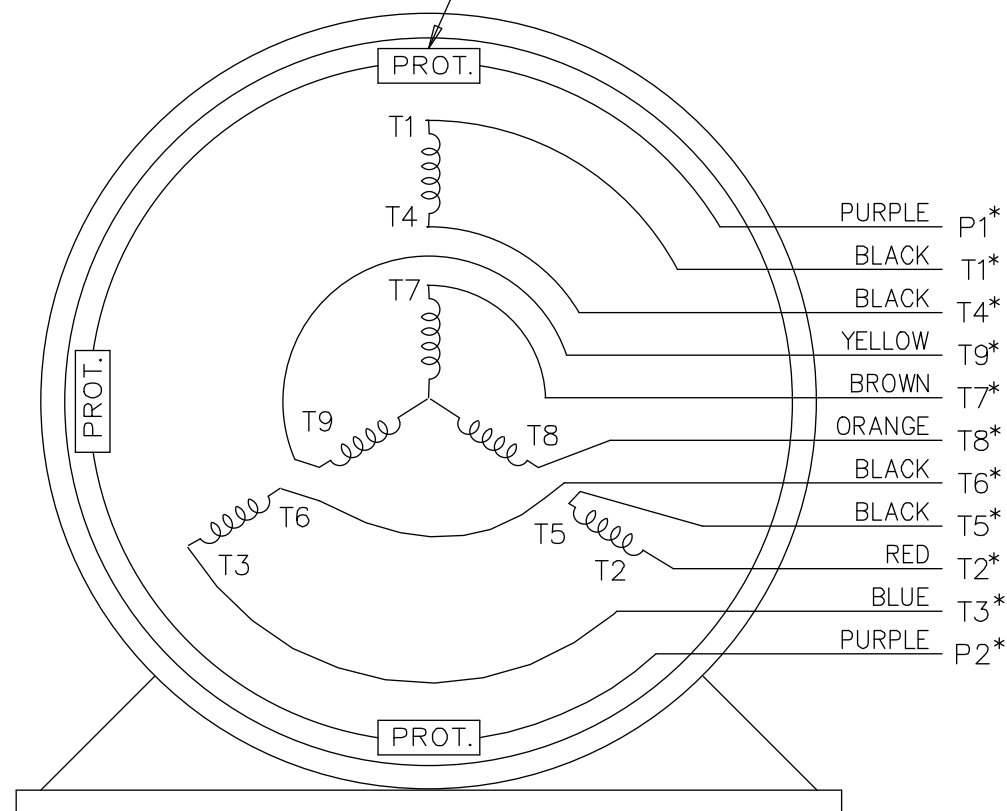


\* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.


# THREE PHASE DUAL VOLTAGE MOTOR

EE7308T-LE

THREMO-PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN TJB 05-07-2002			
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD	DEC.	INCHES		CHK ML 05-08-2002			
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.X	±.1		APPD TB 05-08-2002			
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02		SCALE 1=1			
02	REDRAWN	TAT 04-20-2004	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM 3 PHASE – DUAL VOLTAGE MOTOR	REF			
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML	.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_LE	SIZE	DRAWING NO.	PAGE OF	REV.
			DIST LB-WP-LE				A	EE7308T-LE		05



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308T-LE

CAT #: 825190.00

OUTLINE: 035694LE-1000

WINDING: 1842180

FN 1

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	3600	3505	184TC	TEFC	TFS	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	11.8/5.9&9/4.5	ACROSS THE LINE	CONT	B	1.15	40	3300

F.L. EFF	88.5	3/4 LD EFF	89.0	1/2 LD EFF	88.4	GTD EFF	86.5	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	88.5	3/4 LD PF	85.5	1/2 LD PF	77.5				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
7.5 LB-FT	45.0	15.7 LB-FT 209%	24.2 LB-FT 323%	50

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA		0.30 LB-FT²	5 LB-FT²	15 SEC.	2	125 LB.

### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	NO	DOF CL I GR D CL II GR	NO	NONE	WATTS AVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6207 6206						

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
1.392	1.13	4.811	1.846	124.96	0.150	ODE

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

DATE: 8/29/2018	BRAKE: NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: NONE	

## Data Sheet

Date: 8/29/2018

825190.00



Data @ 460 V

## Motor Load Data

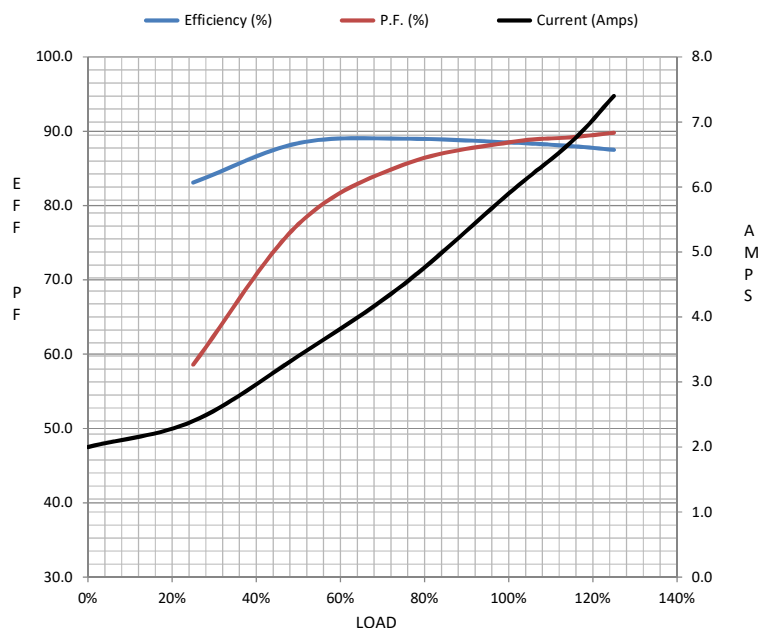
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.00	2.40	3.4	4.5	5.9	6.7	7.4	45.0	
Torque (ft-lb)	0.00	1.80	3.7	5.5	7.5	8.6	9.4	15.7	
RPM	3600	3580	3560	3535	3505	3,490	3480	0	
Efficiency (%)		83.1	88.4	89.0	88.5	88.0	87.5		
P.F. (%)	11.5	58.6	77.5	85.5	88.5	89.2	89.8	43.5	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	650	2914	3505	3600
Current (Amps)	45.0	43.5	28.7	5.9	2.00
Torque (ft-lb)	15.7	13.5	24.2	7.5	0.00

## Information Block

HP	5.0			
Sync. RPM	3600			
Frame	184			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380	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	0.30	Lb-Ft²		
Ref Wdg	1842180 FN			
Sound Pressure @ 1M	72	dBA		
VFD Rating	NONE			
Outline Dwg	035694LE-1000			
Conn. Diag	EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.3920	1.1300	4.8110	1.8460	124.9600



## Speed - Torque Curve

