

PRODUCT INFORMATION PACKET



Model No: LM30572
Catalog No: LM30572
10 HP Variable Speed Motor, 3 phase, 1800 RPM, 230/460 V, 256TC Frame, TENV
2000:1 With Encoder Motors



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The Regal logo is a grey, stylized shape with the word "REGAL" in white, bold, sans-serif capital letters.

REGAL



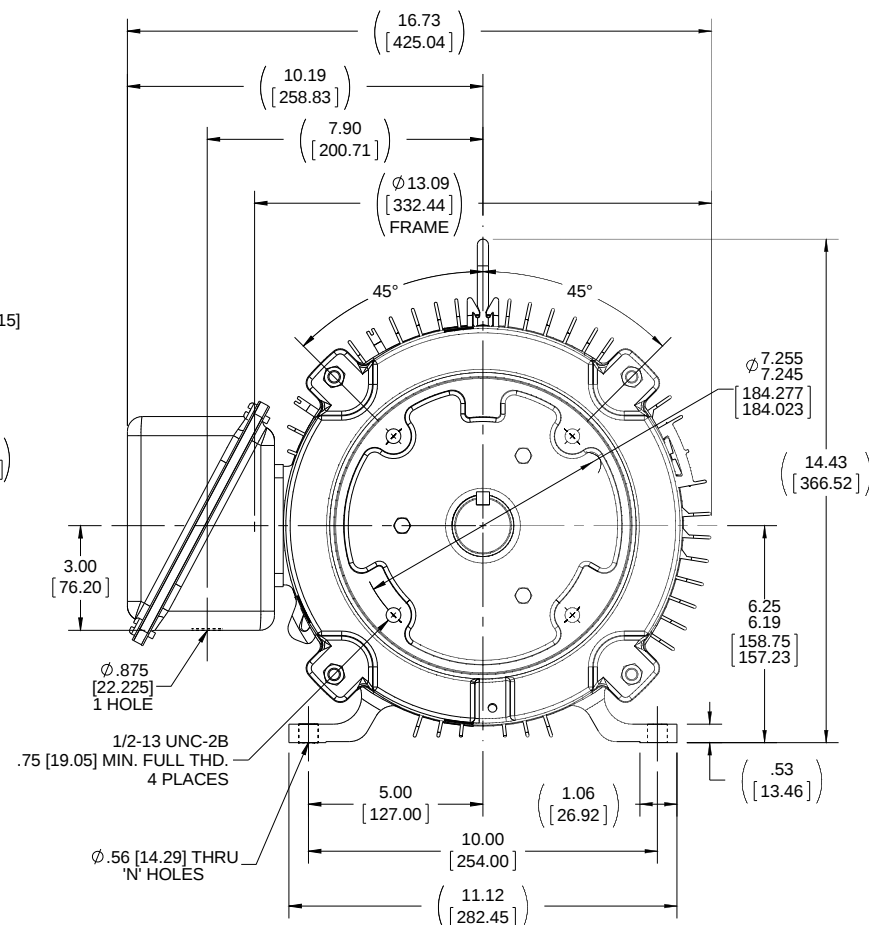
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	27.0/13.5 A	Speed	1775 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	J
Frame	256TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	43

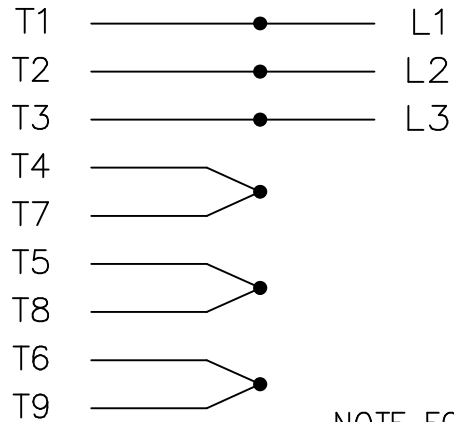
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.675 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	25.49 in
Frame Length	13.75 in	Shaft Diameter	1.625 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE

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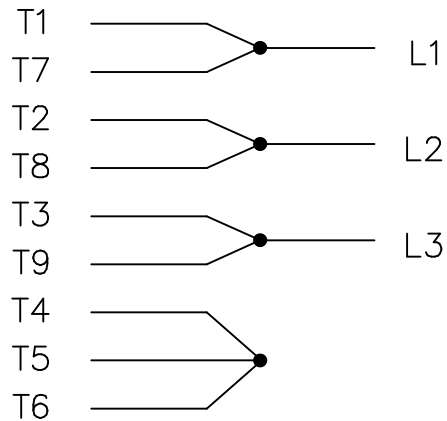


HIGH VOLTAGE



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

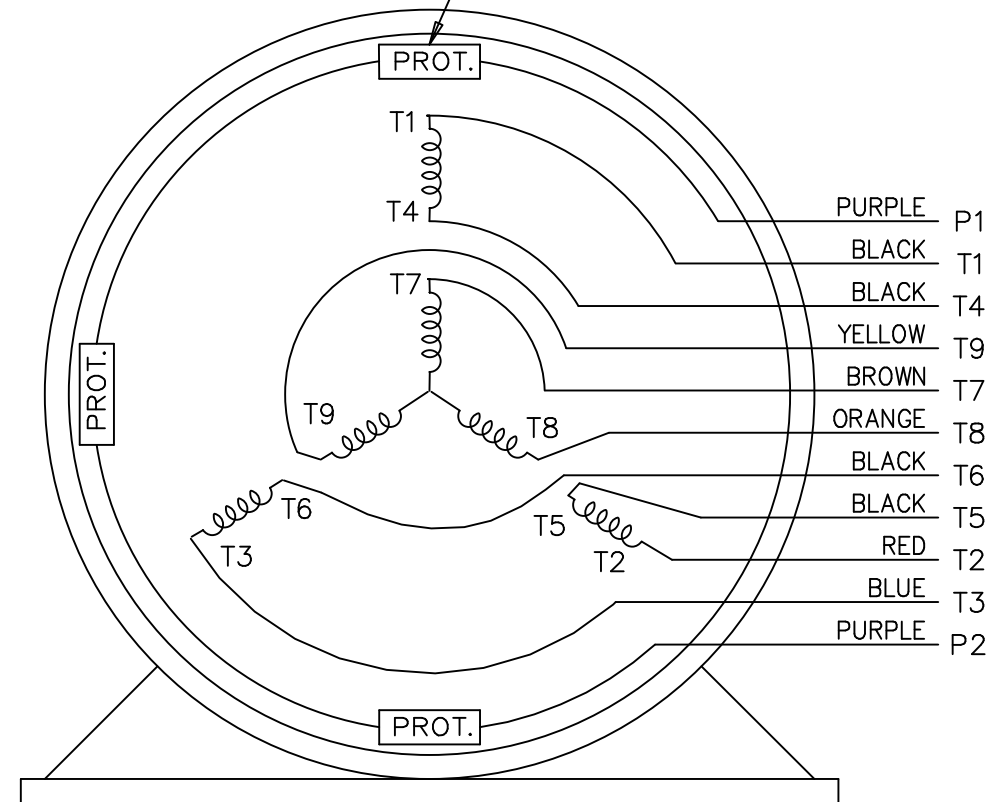
LOW VOLTAGE



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
OUTLINE: B-SS321174LN-1375
WINDING: K2544148

CAT #:

LM30572

R2 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1800	1775	256TC	TENV	TTY	J	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	27/13.5	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	91.7	3/4 LD EFF	91.7	1/2 LD EFF	90.2	GTD EFF	ELECT. TYPE
F.L. PF	75.0	3/4 LD PF	67.0	1/2 LD PF	55.0	90.2	SO CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
29.5 LB-FT	95.0	72.0 LB-FT	244%	100 LB-FT
			339%	80

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dbA	71 dbA		2.50 LB-FT²	0 LB-FT²	0 SEC.	0	340 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTS/SAVER

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE ODE							
BALL BALL		T	NONE	NONE		1045 HOT ROLLED (C-204)	ALUMINUM
6309 6309							

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
0.432	0.335	1.5	1.741	36.92	0.150	ODE

INVERTER TORQUE: CONSTANT 100:1
 INV. HP SPEED RANGE: NONE

ENCODER: DYNAPAR	
HS35	
MS CONNECTOR	2048 PPR

BRAKE: NONE	
FT-LB: NONE	NONE
VOLTAGE: NONE	
UL: V-INS, CONST. OVERHEAT PRT DEV UL REC	

DATE: 9/10/2018	HZ:
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Data Sheet

Date: 9/10/2018

LM30572



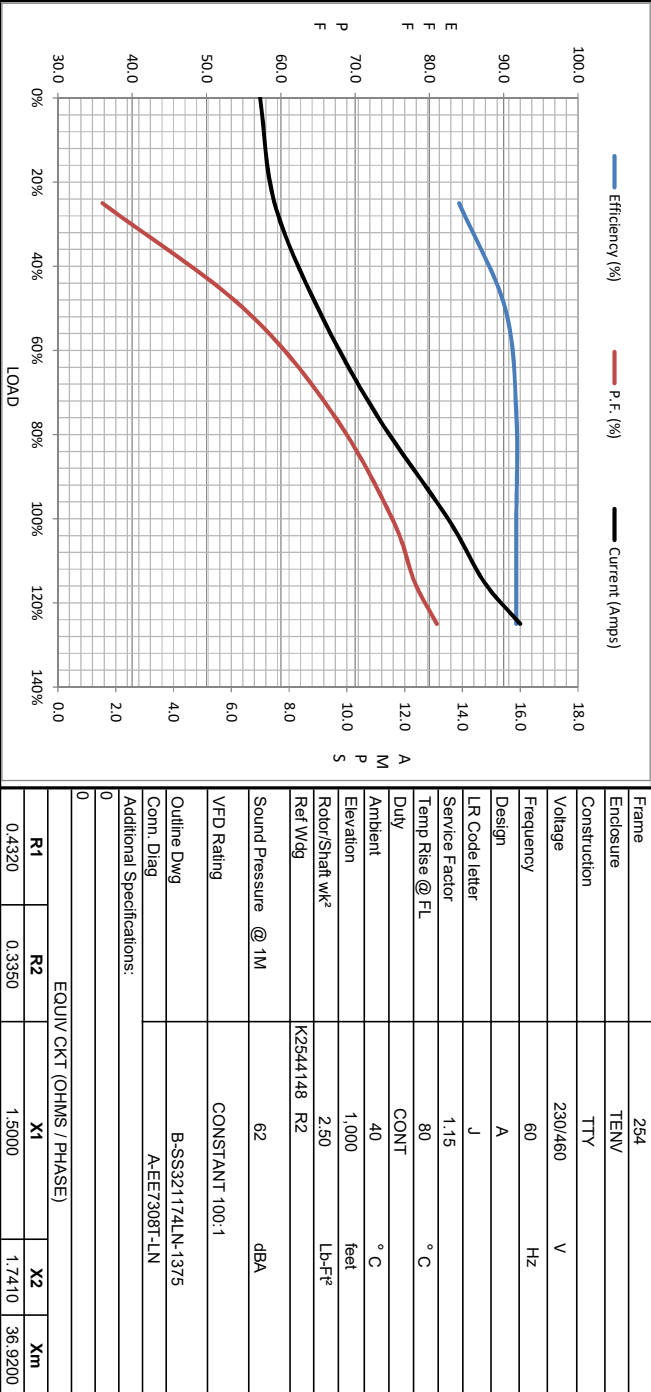
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.0	7.5	9.0	11.0	13.5	14.8	16.0	95.0
Torque (ft-lb)	0.00	7.5	14.5	22.0	29.5	33.3	37.0	72.0
RPM	1800	1795	1785	1780	1775	1,771	1765	0
Efficiency (%)		84.0	90.2	91.7	91.7	91.7	91.7	
P.F. (%)	6.0	36.0	55.0	67.0	75.0	78.0	81.0	36.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1610	1775	1800		
Current (Amps)	95.0	88.0	65.0	13.5	7.0		
Torque (ft-lb)	72.0	68.0	100	29.5	0.00		
						HP	10.0
						Sync. RPM	1800



Speed -Torque Curve

