

PRODUCT INFORMATION PACKET

Model No: 810098.00

Catalog No: 810098.00

Encoder Motors, TEBC - Axial, 60 HP, 3 Ph, 60 Hz, 230/460 V, 1180 RPM, 404TC Frame



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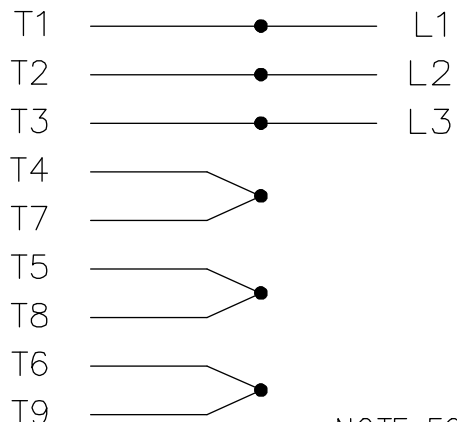
Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	142.0/71.0 A	Speed	1180 rpm
Service Factor	1	Phase	3
Efficiency	92.4 %	Power Factor	86
Duty	Continuous	Insulation Class	H
Design Code	A	KVA Code	H
Frame	404TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

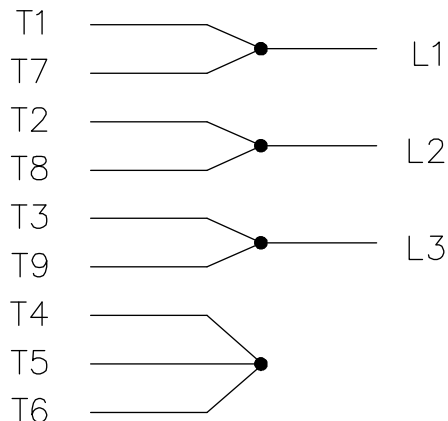
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	6	Rotation	Reversible
Resistance Main	.13 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	48.22 in
Frame Length	15.25 in	Shaft Diameter	2.875 in
Shaft Extension	7 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS518552LE-1525	Connection Drawing	A-EE7308T-LE

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

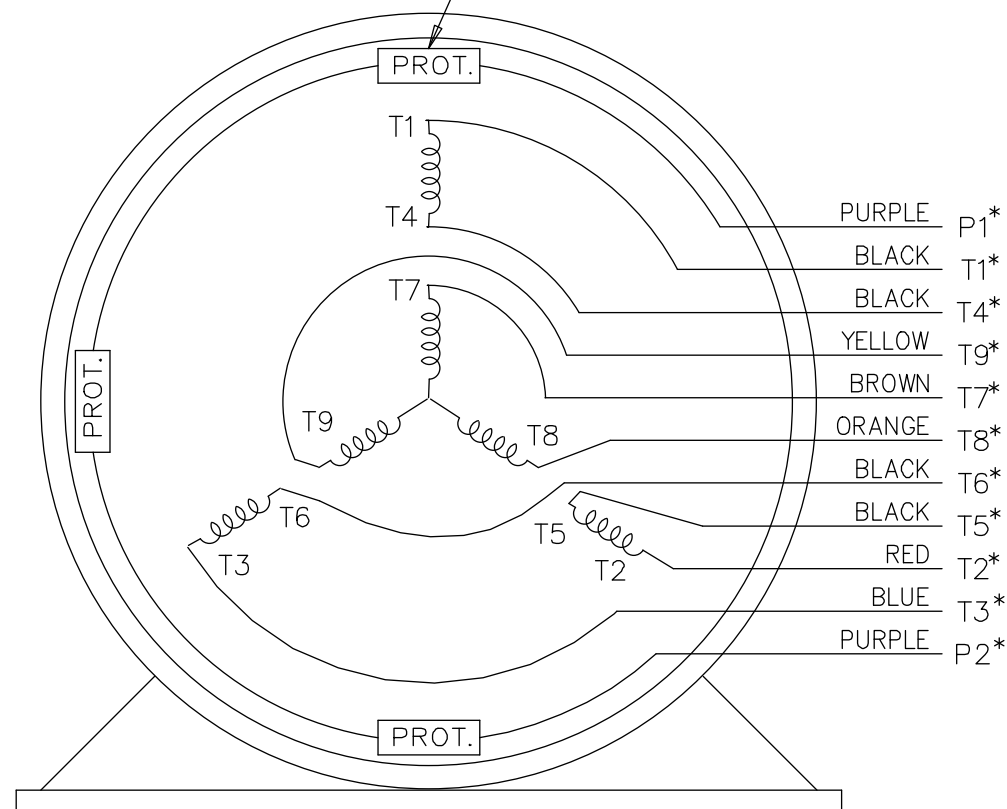
LOW VOLTAGE



THREE PHASE DUAL VOLTAGE MOTOR

EE7308T-LE

THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

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

				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



P.O. BOX 8003
WAUSAU, WI 54401-8003
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DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LE

CAT #: 810098.00

OUTLINE: B-SS518552LE-1525

WINDING: T404665

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	1200	1180	404TC	TEBC	TBS	H	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	142/71	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	92.4	3/4 LD EFF	92.4	1/2 LD EFF	91.5	GTD EFF	91.0	ELECT. TYPE	SQ CAGE INV DUTY
F.L. PF	86.0	3/4 LD PF	82.0	1/2 LD PF	73.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
267 LB-FT	510	500 LB-FT 187%	850 LB-FT 318%	68

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
88 dBA	97 dBA	35.5 LB-FT²	0 LB-FT²	0 SEC.	0	1200 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	JE - LEESON (ENAM

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
6316 6313						

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
0.085	0.068	0.363	0.3	8.892	0.150	ODE

* N O T E S *			INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
	ENCODER: NORTHSTAR ST56 NONE		NONE PPR
DATE: 1/19/2018			BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/19/2018

810098.00



Data @ 460 V

Motor Load Data

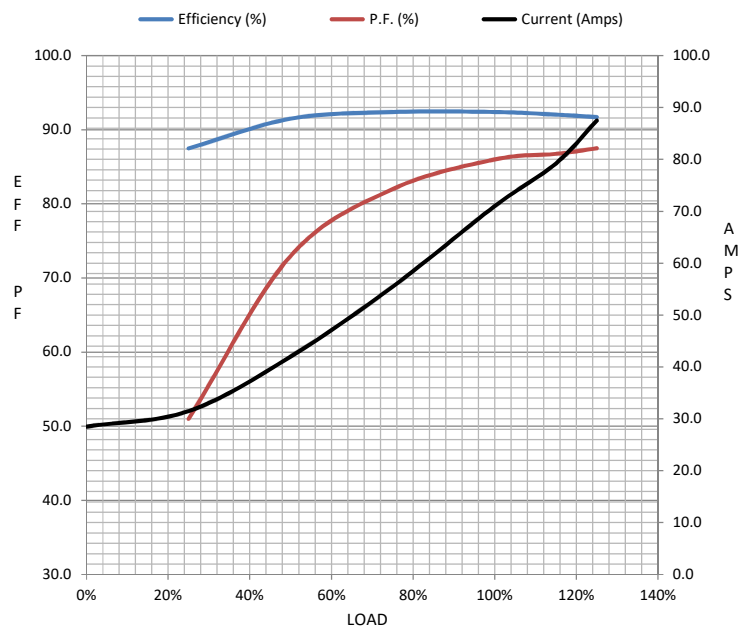
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	28.5	31.5	42.0	55.5	71.0	79.3	87.5	510	
Torque (ft-lb)	0.00	66.0	132	200	267	302	336	500	
RPM	1200	1195	1190	1185	1180	1,177	1173	0	
Efficiency (%)		87.5	91.5	92.4	92.4	92.1	91.7		
P.F. (%)	7.0	51.0	73.0	82.0	86.0	86.8	87.5	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1075	1180	1200
Current (Amps)	510	475	320	71.0	28.5
Torque (ft-lb)	500	475	850	267	0.00

Information Block

HP	60.0			
Sync. RPM	1200			
Frame	404			
Enclosure	TEBC			
Construction	TBS			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	68 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	35.5 Lb-Ft²			
Ref Wdg	T404665 NONE			
Sound Pressure @ 1M	88 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS518552LE-1525			
Conn. Diag	A-EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0850	0.0680	0.3630	0.3000	8.8920



Speed - Torque Curve

