

PRODUCT INFORMATION PACKET

Model No: 810031.00

Catalog No: 810031.00

Encoder Motors, TEBC - Axial, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1780 RPM, 365TC Frame



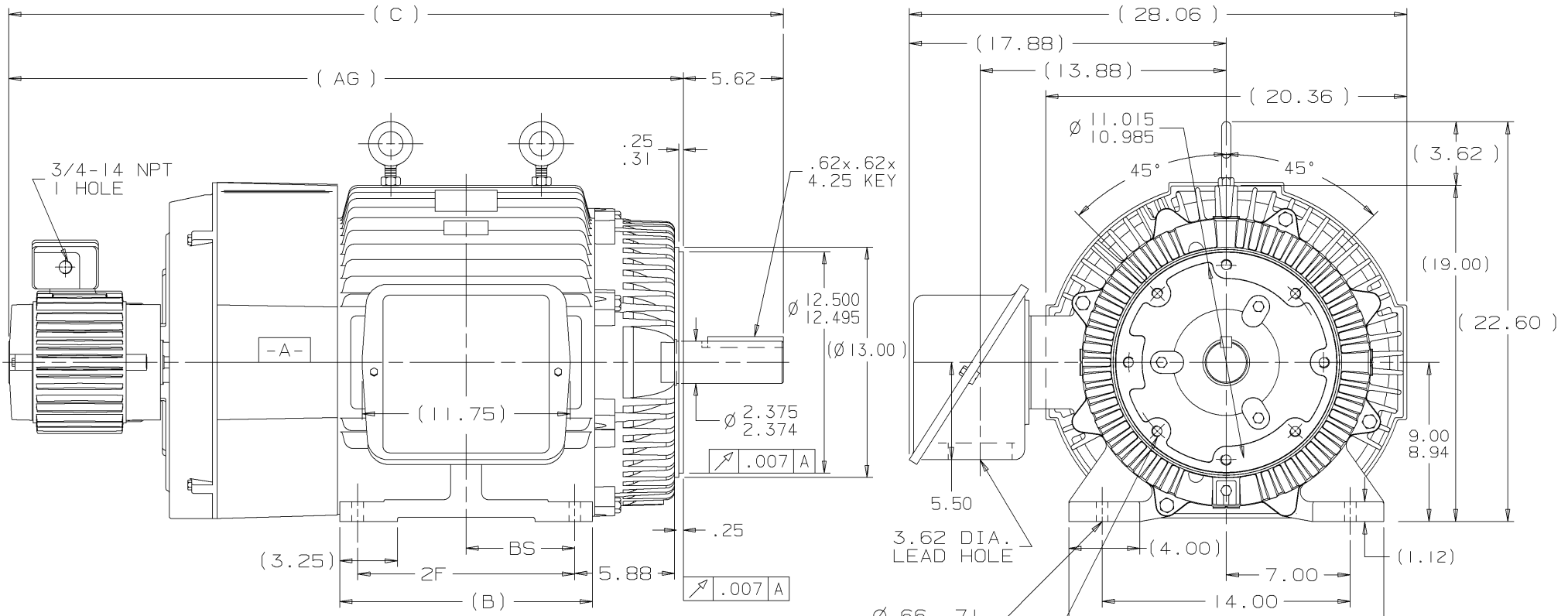
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Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	180.0/90.0 A	Speed	1780 rpm
Service Factor	1	Phase	3
Efficiency	93 %	Power Factor	84
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	H
Frame	365TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	314	Opp Drive End Bearing Size	312
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	.075 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	43.67 in
Frame Length	14.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.88 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Connection Drawing	A-EE7308T-LE	Outline Drawing	B-SS518551LE-1450



NOTES:

1. BOX CAN BE ROTATED IN 90° STEPS
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

DASH	FRAME	C	AG	B	2F	BS
1350	364TC	42.67	37.04	13.25	11.25	5.62
1450	365TC	43.67	38.04	14.25	12.25	6.12

				TOLERANCES UNLESS SPECIFIED		LEESON		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN NJS 05-15-2002	
				DEC.	TOLERANCE			CHK	ML	05-20-2002	
				.X	± .1			APPD	TB	05-20-2002	
				.XX	± .03	TITLE		SCALE			
				.XXX	± .005	OUTLINE		REF			
I NEW DRAWING				CN	35132	360TC FR. - TEBC		FMF			
NO. REVISION				BY	DATE	✓ SURFACE ROUGHNESS UNLESS SPECIFIED		FINISH		PREV	
				CHK	ANG	± 7'30"					
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				PURCHASED		CAD FILE 55518551LE		SHOP BOOK		SIZE	DRAWING NO.
				DIST WA - 06 - 08 - 09 - 0R - 0X						B	SS518551LE
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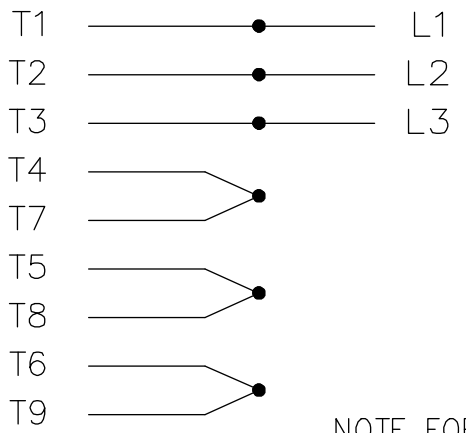
```
ERROR: undefined
OFFENDING COMMAND: de
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STACK:
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{--currentdict-- --exch-- --begin-- --begin-- }
/resume
-dictionary-
/Pscript_WinNT_Compat
-dictionary-
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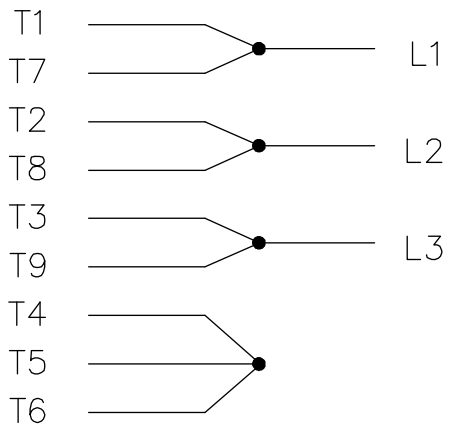
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

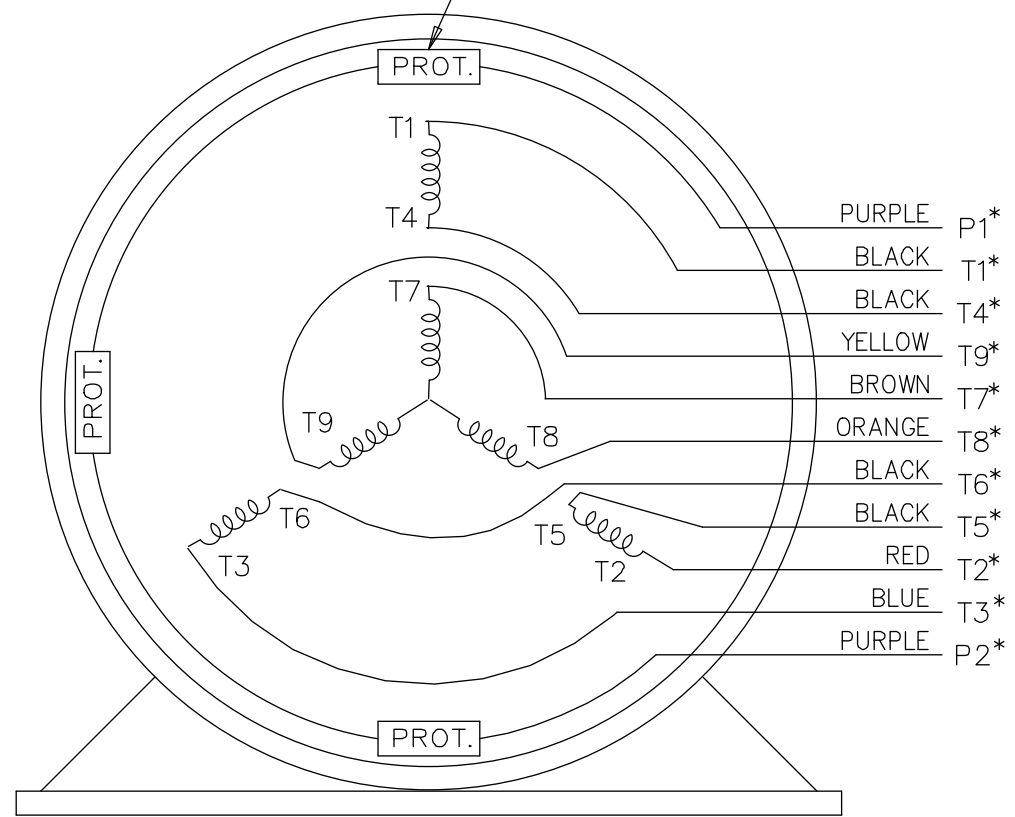


NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1

LOW VOLTAGE



THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

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

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN TJB 05-07-2002				
					DEC.	INCHES						
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			REF				
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML	.XXXX	±.0005			FMF				
								PREV				
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							DIST LB-WP-LE					



ELECTRIC MOTORS
GEARMOTORS
AND DRIVES

TITLE CONNECTION DIAGRAM
3 PHASE - DUAL VOLTAGE MOTOR

P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LE
 OUTLINE: B-SS518551LE-1450
 WINDING: T3654146

CAT #: 810031.00

R1 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1800	1780	365TC	TEBC	TBS	H	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	180/90	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	93.0	3/4 LD EFF	93.0	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE
F.L. PF	84.0	3/4 LD PF	80.5	1/2 LD PF	72.0	91.7	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
221 LB-FT	645	505 LB-FT 229%	645 LB-FT 292%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
85 dBA	94 dBA	16.0 LB-FT²	0 LB-FT²	0 SEC.	0	1025 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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
314	312						

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
0.054	0.038	0.299	0.42	8.203	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					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE HZ:					

DATE: 1/29/2018

UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/29/2018

810031.00



Data @ 460 V

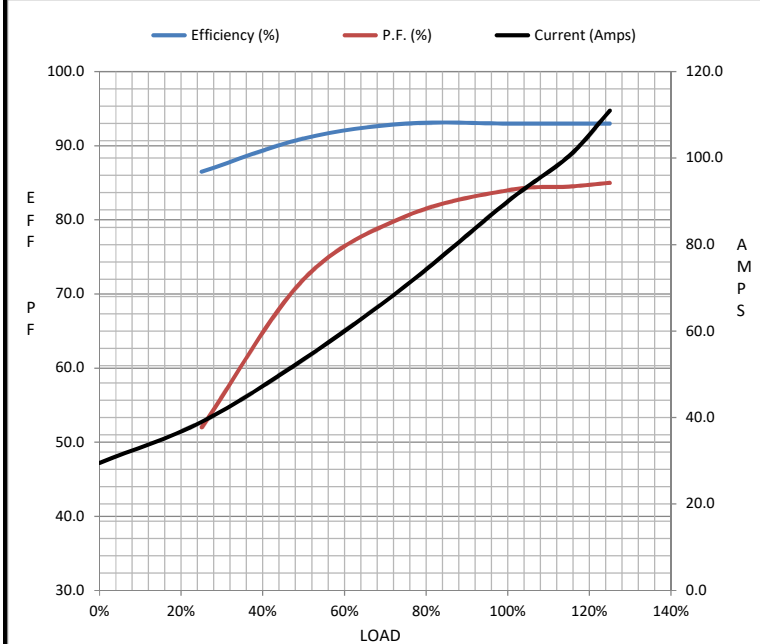
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	29.5	39.0	53.5	70.5	90.0	101	111	645
Torque (ft-lb)	0.00	55.0	110	166	221	250	278	505
RPM	1800	1796	1792	1786	1780	1.778	1775	0
Efficiency (%)		86.5	91.0	93.0	93.0	93.0	93.0	
P.F. (%)	9.0	52.0	72.0	80.5	84.0	84.5	85.0	37.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1665	1780	1800
Current (Amps)	645	550	365	90.0	29.5
Torque (ft-lb)	505	475	645	221	0.00

Information Block				
HP	75.0			
Sync. RPM	1800			
Frame	365			
Enclosure	TEBC			
Construction	TBS			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	16.0 Lb-Ft ²			
Ref Wdg	T3654146 R1			
Sound Pressure @ 1M	85 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS518551LE-1450			
Conn. Diag	A-EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0540	0.0380	0.2990	0.4200	8.2030



Speed - Torque Curve

