

PRODUCT INFORMATION PACKET

Model No: 810015.00

Catalog No: 810015.00

Encoder Motors, TEBC - Axial, 30 HP, 3 Ph, 60 Hz, 230/460 V, 1765 RPM, 286TC Frame



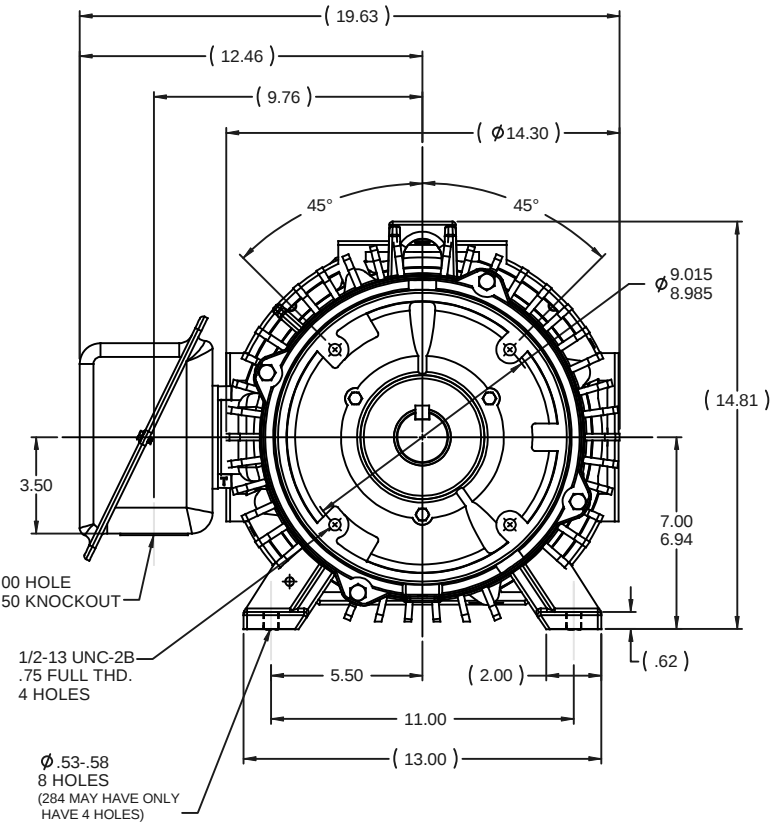
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Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	230/460 V
Current	74.0/37.0 A	Speed	1765 rpm
Service Factor	1	Phase	3
Efficiency	91 %	Power Factor	83
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	F
Frame	286TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

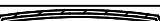
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.3 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	39.31 in
Frame Length	14.25 in	Shaft Diameter	1.875 in
Shaft Extension	4.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Connection Drawing	A-EE7308T-LE	Outline Drawing	B-SS311263LE-1425



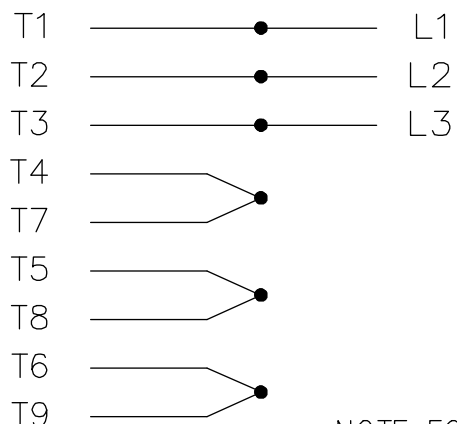
NOTES:

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

DASH	FRAME	C	AG	B	2F	2FF	BS
1275	284TC	37.81	33.43	11.50	9.50		4.75
1425	286TC	39.31	34.93	13.00	9.50	11.00	5.50

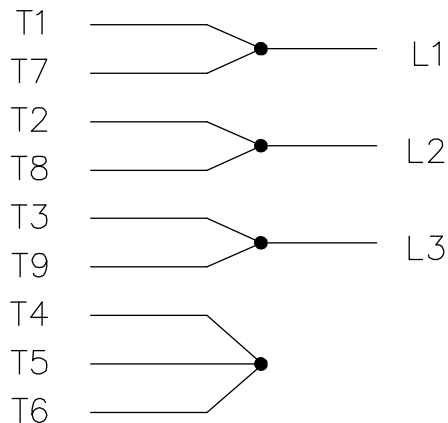
			TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN	NJS 05-16-2002
			DEC	INCHES		CHK	ML 05-20-2002
			X	±.1		APPR	TB 05-20-2002
			XX	±.03	TITLE	OUTLINE - TFPA SERIES	
2	REVISED MOUNTING HOLE QUANTITY	CN 40694	DRS 10-25-2006	ML .xxx	±.005	280TC FR. - TEBC	
1	NEW DRAWING	CN 35134	NJS 05-20-2002	TB .xxxX	±.0005	MATL	SCALE 1:4.5
NO	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	REF
							FMF
							PREV
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						B	2
						DRAWING NO	
						SS311263LE	
						CAD FILE	
						SS311263LE	

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

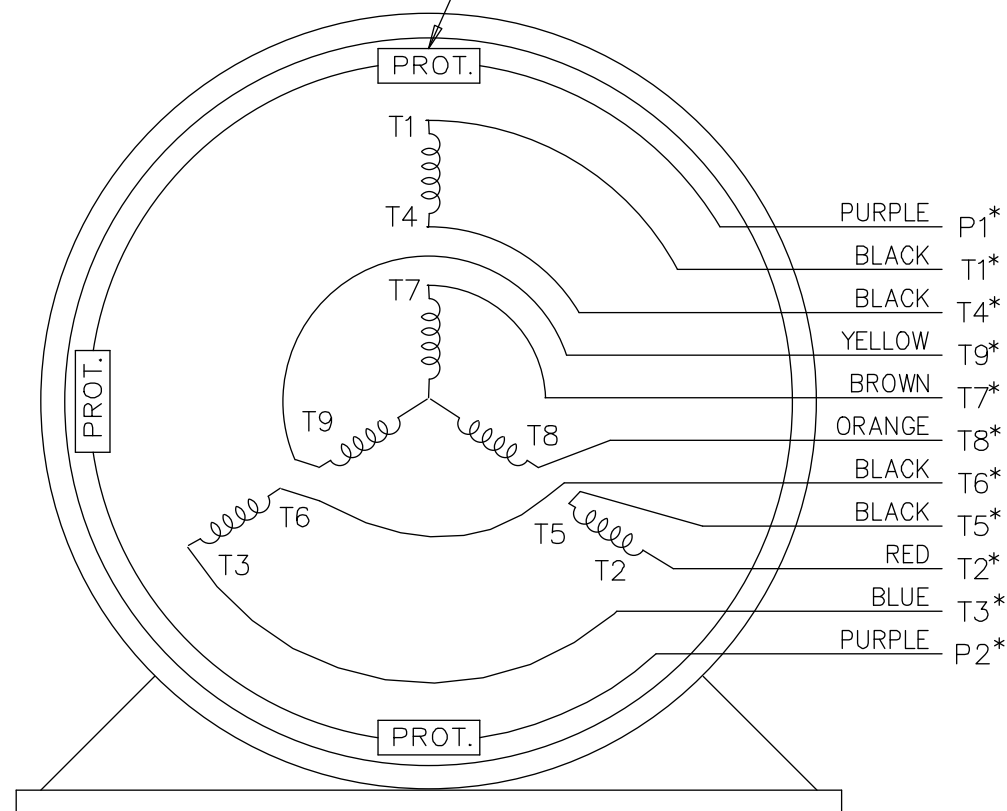
LOW VOLTAGE



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.

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					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				DRAWING NO. EE7308T-LE
								PAGE OF 05



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-SS311263LE-1425
WINDING: K2564179

CAT #: 810015.00

F 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1765	286TC	TEBC	TBP	F	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	74/37	INVERTER ONLY	CONT	H	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.7	1/2 LD EFF	91.0	GTD EFF	89.5	ELECT. TYPE	SQ CAGE INV DUTY
F.L. PF	83.0	3/4 LD PF	78.0	1/2 LD PF	68.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
89.3 LB-FT	225	185 LB-FT 207%	240 LB-FT 269%	75

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA	3.2 LB-FT²	0 LB-FT²	0 SEC.	0	550 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						
6311	6210						

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
0.193	0.152	0.679	0.984	17.123	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: 2/1/2018			BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE UL: Y-(LEESON UL REC)

Data Sheet

Date: 2/1/2018

810015.00



Data @ 460 V

Motor Load Data

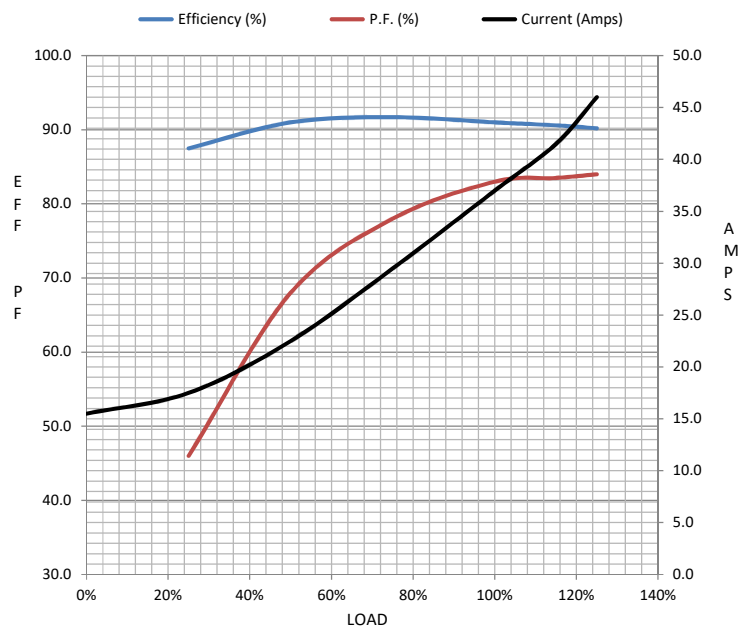
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	15.5	17.5	22.5	29.5	37.0	41.5	46.0	225	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.3	101	112	185	
RPM	1800	1792	1782	1774	1765	1,760	1752	0	
Efficiency (%)		87.5	91.0	91.7	91.0	90.6	90.2		
P.F. (%)	6.0	46.0	68.0	78.0	83.0	83.5	84.0	39.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1635	1765	1800
Current (Amps)	225	200	135	37.0	15.5
Torque (ft-lb)	185	170	240	89.3	0.00

Information Block

HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	TEBC			
Construction	TBP			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	3.2 Lb-Ft²			
Ref Wdg	K2564179 F			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS311263LE-1425			
Conn. Diag	A-EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1930	0.1520	0.6790	0.9840	17.1230



Speed - Torque Curve

