

PRODUCT INFORMATION PACKET



Model No: 445TTTN16579AA

Catalog No: 824567.00

..125HP..1200RPM.445T.TEAO.460V.3PH.60HZ.CONT.40C.1.15SF.RIGID.....COOLING TOWER.....

Cooling Tower



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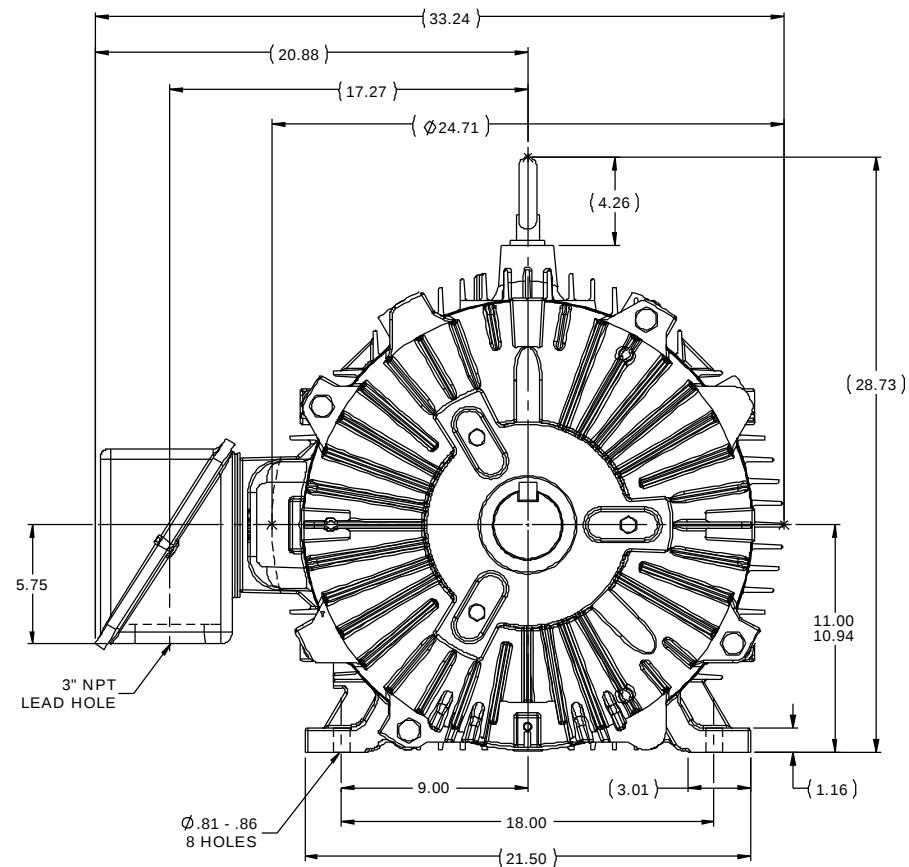


Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	148.0 A	Speed	1190 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	445TV
Enclosure	Totally Enclosed Air Over	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6318
Opp Drive End Bearing Size	6316	UL	Recognized
CSA	Y	CE	Y
IP Code	56		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL OR UP OR DOWN
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	40.05 in	Frame Length	20.25 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS555819-2025	Connection Diagram	A-EE7300S

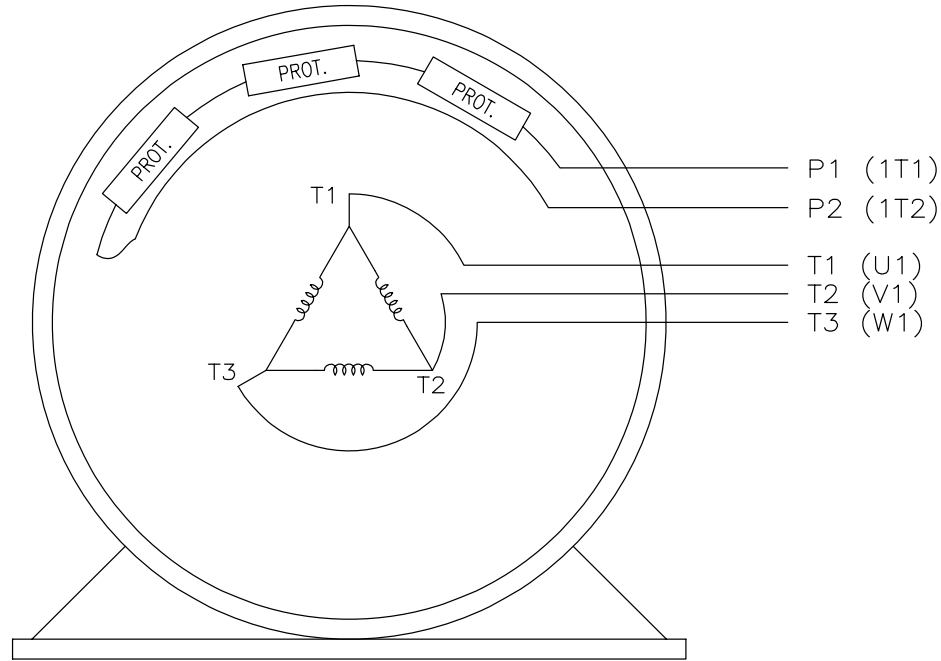


					TOLERANCES UNLESS SPECIFIED		DRAWN	HV 07-01-2013		
				DEC	INCHES		CHK	MH 07-01-2013		
			X		±.1		APPR	DJK 07-02-2013		
			XX		±.03		TITLE	OUTLINE		
			XXX		±.005			444/445T FR. - TENV		
			XXXX		±.0005		MATL			
NO	REVISION		BY & DATE	CHK	ANG	±7°30"	FINISH	PAGE	OF	
				RFP	PREV			SIZE	DRAWING NO	REV
				NETWORK FILE NAME			SS555819	B	SS555819	
THIRD ANGLE PROJECTION										

EE7300S

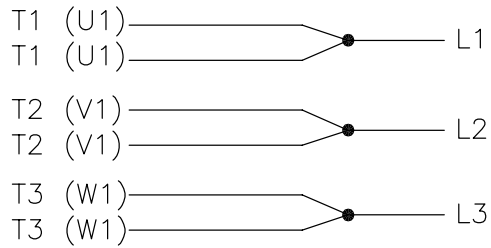
THREE PHASE – SINGLE VOLTAGE MOTOR

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



A-9806 DECAL

				TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN KL 12-15-1999			
				DEC.	INCHES		CHK DJK 12-15-1999			
F	UPDATED TITLE BLOCK	HV 02-27-2014	EW	X	± -	TITLE CONNECTION DIAGRAM – EXTERNAL SINGLE VOLTAGE 3Ø MOTOR	APPD DJK 12-15-1999			
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB 08-02-2010		.XX	± -		SCALE 1=1			
2	ADDED IEC MARKINGS MU61770	KL 09-16-2004	EAB	.XXX	± -		REF			
1	NEW DRAWING	KL 12-16-1999		.XXXX	± -	MAT'L.	FMF			
NO.	REVISION	BY & DATE	CHK	ANG	± -	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 ee7300s			SIZE A	DRAWING NO. EE7300S	PAGE OF	REV. F
			DIST WA-LB-SB							



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WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EET300S
OUTLINE: B-SS565819-2025
WINDING: T4456124

R5 1

CAT #: 824567.00

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN						
125	93	1200	1190	445TV	TEAO	TTN	G	B						
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.					
3	60/50	460#380	148&146	LINE OR INVERTER	CONT	F	1.15	40	3300					
F.L. EFF		95.4	3/4 LD EFF	95.4	1/2 LD EFF	94.5	GTD EFF	ELECT. TYPE						
F.L. PF		83.0	3/4 LD PF	80.0	1/2 LD PF	71.5	95.0	SQ CAGE INVERTED						
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)						
552	LB-FT	907		800		LB-FT	145%	1,300	LB-FT	236%	0			
PRESSURE @ 3		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT		
999	dBA	1008		dBA	80.0	LB-FT²	0	LB-FT²	25	SEC.	0		2250	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	ZONIAL OR UP OR DOWN	SEVERE	NONE	NO	NONE	UE - LEESON (EPO)
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE	ODE							
BALL	BALL							
6318	6316	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON
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		
0.018	0.016	0.21	0.252	4.983	0.080	ODE		

* N O T E S *		INVERTER TORQUE: VARIABLE 10:1	
		INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	NONE	PPR
	NONE		
	NONE		

Data Sheet

Date: 1/17/2018

824567.00



Data @ 460 V

Motor Load Data

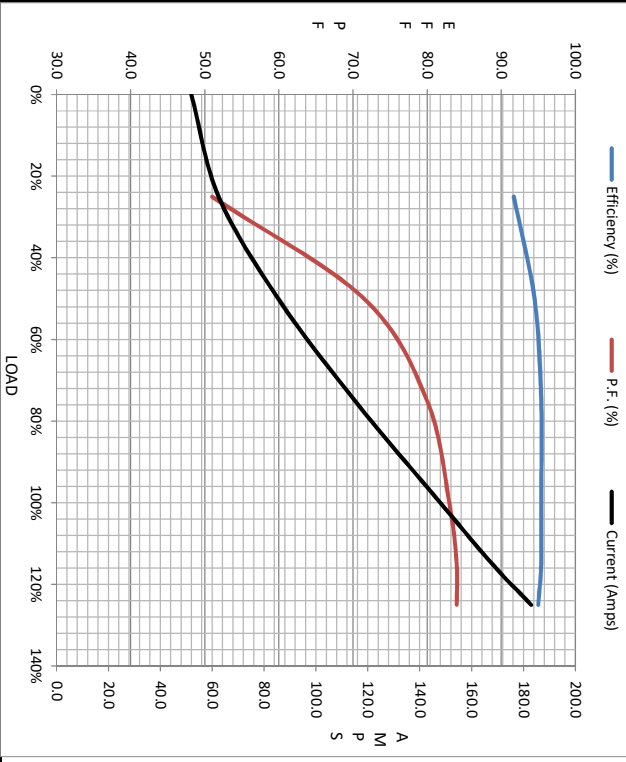
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	52.0	62.5	85.5	115	148	168	183	907
Torque (ft-lb)	0.00	137	275	413	552	636	692	800
RPM	1200	1198	1195	1192	1190	1,188	1,186	0
Efficiency (%)		91.7	94.5	95.4	95.4	95.4	95.0	
P.F. (%)	4.5	51.0	71.5	80.0	83.0	84.0	84.0	23.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	907	825	500	148	52.0
Torque (ft-lb)	800	725	1,300	552	0.00

Information Block

HP		125.0	
Sync. RPM		1200	
Frame		445	
Enclosure		TEAO	
Construction		TTN	
Voltage		460#380	V
Frequency		60	Hz
Design		B	
LR Code letter		G	
Service Factor		1.15	
Temp Rise @ FL		0	° C
Duty		CONT	
Ambient		40	° C
Elevation		1,000	feet
Rotor/Shaft wk²		80.0	Lb-Ft²
Ret Wdg		T456124 R5	
Sound Pressure @ 1M		999	dBA
VFD Rating		VARIABLE 10:1	
Outline Dwg		B-SS55619-2025	
Conn. Diag		A-EET300S	
Additional Specifications:			
0			
0	EQUIV CKT (OHMS / PHASE)		
R1	R2	X1	X2 Xm
0.0180	0.0160	0.2100	0.2520 4.9830



Speed -Torque Curve

