

PRODUCT INFORMATION PACKET



Model No: 444TTTN16578AA

Catalog No: 824566.00

..100HP..1200RPM.444T.TEAO.460V.3PH.60HZ.CONT.40C.1.15SF.RIGID.....COOLING TOWER.....

Cooling Tower



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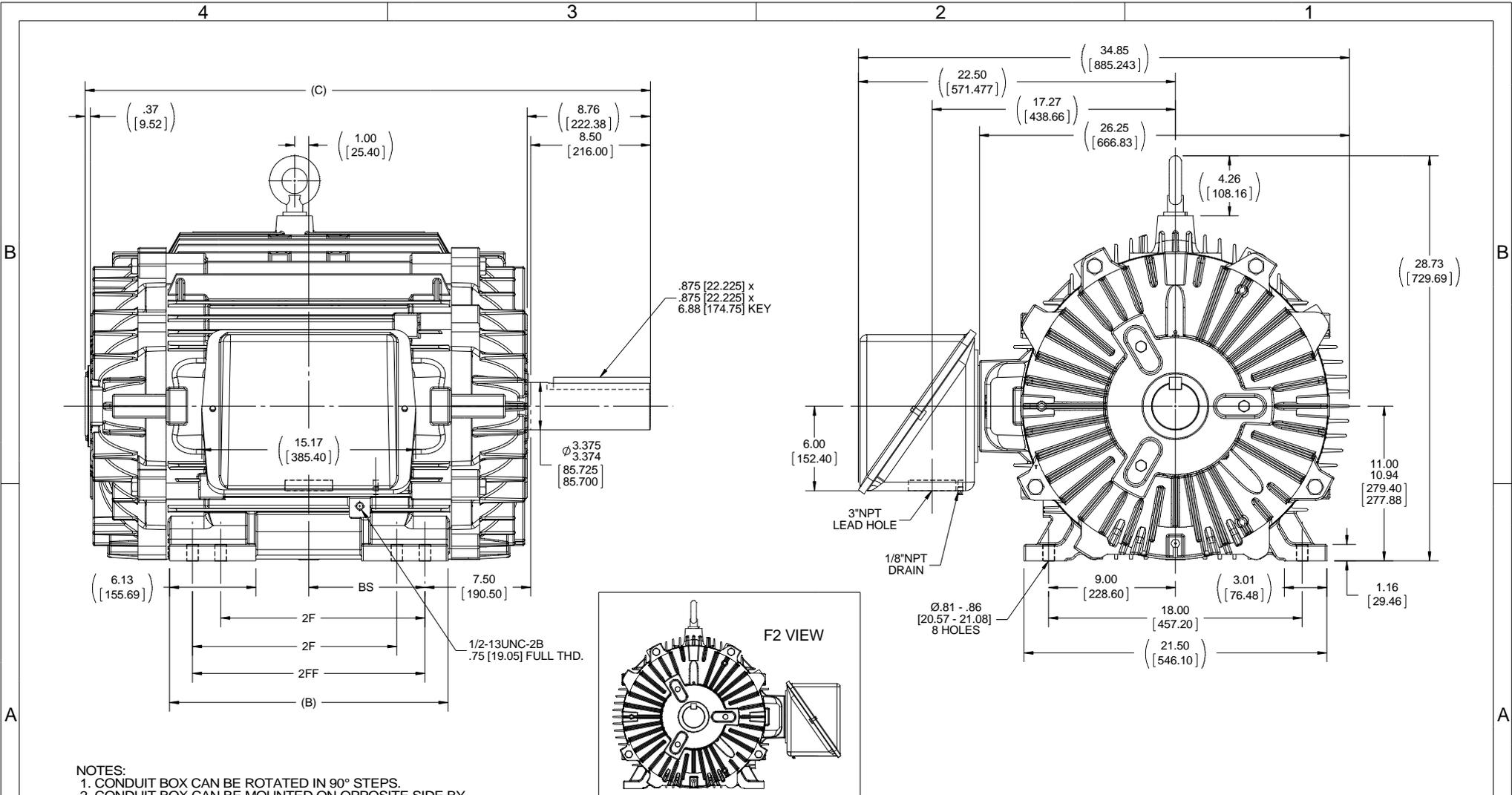


Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	240.0/120.0 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	444T
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
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	40.13 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-SS555777LE-2025	Connection Diagram	A-EE7308AD-LE



- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT 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	B	C	2F	2FF	BS
2025	444/445T	19.76 [501.90]	40.13 [1019.30]	14.50 [368.30]	16.50 [419.10]	8.25 [209.55]

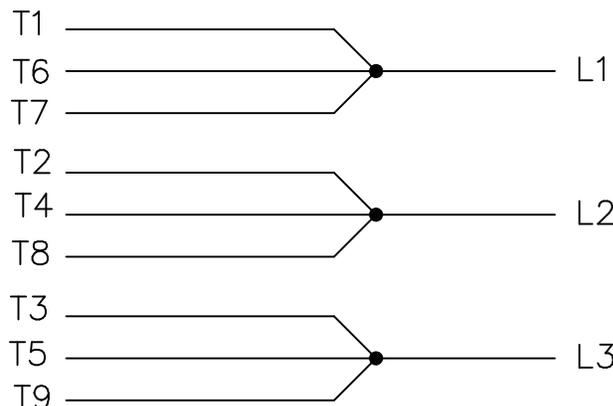
DRAWING REVISION D	REVISION BY AJW	DATE 05-12-2015
ECO ECO-0077385	APPROVED BY TDB	DATE 05-12-2015
REMOVED "T" ON 1/8" CBOX DRAIN		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	+0.1	[+2.5]	±7 30°
.XX	+0.03	[+0.76]	
.XXX	+0.005	[+0.127]	
.XXXX	+0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381]			
CORNER FILLETS: .02 [51]			
MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]			

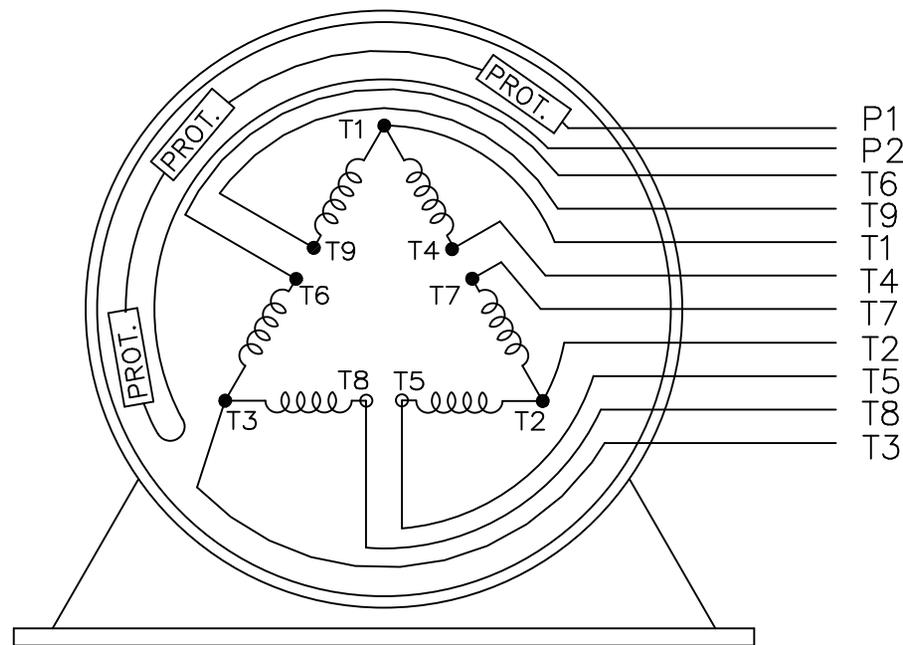
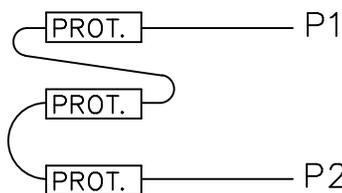
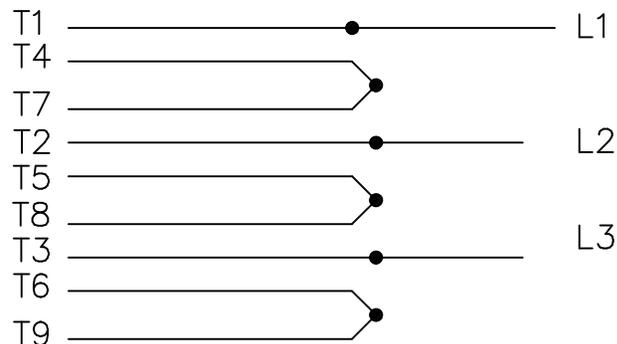
DRAWN BY TDB	DATE 06-03-2013
APPROVED BY DJK	DATE 06-05-2013
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 440T FR. - TENV - T-DRAIN	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS555777LE
	SHEET 1 OF 1

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN NJS 05-15-2002				
				DEC.	INCHES		CHK	ML	05-20-2002		
				.X	±.1		APPD	TB	05-20-2002		
				.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE				
2	HIGH VOLT. SCHEMATIC WAS L1, L3, & L3	CN 32724	DRS 06-12-2004	ML	.XXX ±.005	3Ø - WITH PROTECTORS	REF				
1	NEW DRAWING	CN 35132	NJS 05-20-2002	TB	.XXXX ±.0005	MAT'L.	FMF				
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV				
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				DIST	WA-LB	A	EE7308AD-LE				2



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EET7308AD-LE
OUTLINE: B-SS56577LE-2025
WINDING: T444677

CAT #: 824566.00

R11 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
100	75	1200	1190	444T	TEAO	TTN	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	240/120&220/110	LINE OR INVERTER	CONT	F	1.15	40	3300
F.L. EFF	F.L. PF	3/4 LD EFF	3/4 LD PF	1/2 LD EFF	1/2 LD PF	ELECT. TYPE			
95.4	82.0	95.4	78.0	94.5	88.5	SQ CAGE INVERTED			
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (% C)					
441 LB-FT	725	675 LB-FT	153%	1,050 LB-FT	238%	0			
PRESSURE @ 3 DBA	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT			
68 DBA	77 DBA	64.0 LB-FT ²	0 LB-FT ²	25 SEC.	0	1900 LB.			

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	NONE	NO	NONE	UE - LEESON (EPO)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
BALL BALL 6318	POLYREX EM 6316	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		
0.023	0.019	0.263	0.294	5.643	0.080	ODE		

* N O T E S *		INVERTER TORQUE: VARIABLE 10:1	
		INV. HP SPEED RANGE: NONE	
		ENCODER: NONE	
		BRAKE: NONE	
		FT-LB: NONE	
		VOLTAGE: NA	
		UL: Y-(LEESON UL REC)	
		NONE PPR	

DATE: 1/22/2018	Hz:
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Motor Load Data								
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	46.0	55.0	73.0	96.0	120	136	148	725
Torque (ft-lb)	0.00	110	220	330	441	508	553	675
RPM	1200	1198	1195	1192	1190	1,188	1185	0
Efficiency (%)		91.7	94.5	95.4	95.4	95.0	94.5	
P.F. (%)	4.0	47.0	88.5	78.0	82.0	83.0	83.0	22.0

Motor Speed Data						Information Block																					
Speed (RPM)	LR	Pull-Up	BD	Rated	Idle	HP	Sync. RPM	Frame	Enclosure	Construction	Voltage	Frequency	Design	LR Code letter	Service Factor	Temp Rise @ FL	Duty	Ambient	Elevation	Rotor/Shaft wk ²	Ref Wdg	Sound Pressure @ 1M	VFD Rating	Outline Dwg	Conn. Diag	Additional Specifications:	