

PRODUCT INFORMATION PACKET



Model No: 405TTTS16578AN

Catalog No: 824565.00

..75HP..1200RPM.405T.TEAO.230/460V.3PH.60HZ.CONT.40C.1.15SF.RIGID.....COOLING TOWER.....

Cooling Tower



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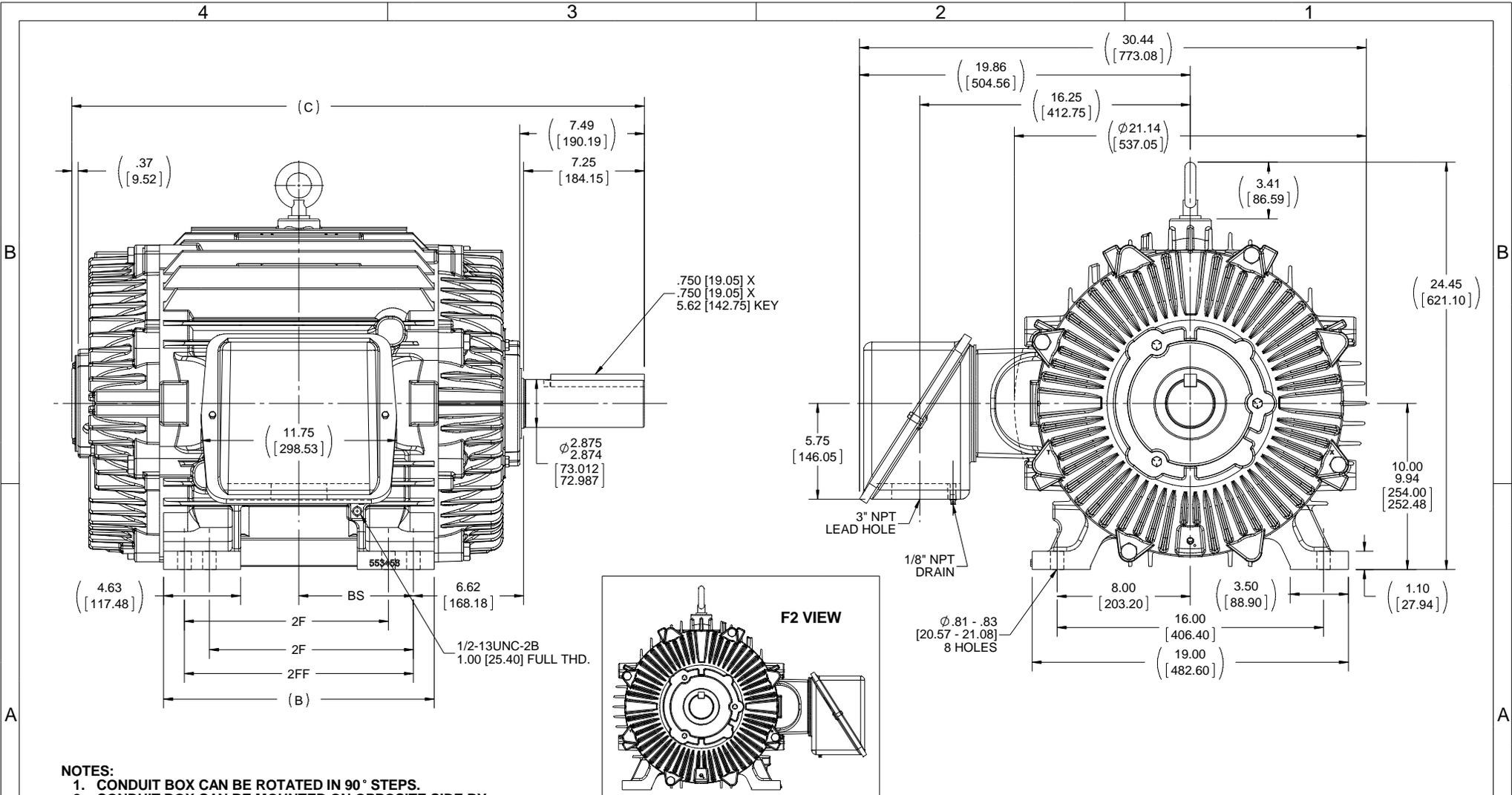


Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	179.0/89.5 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	405TV
Enclosure	Totally Enclosed Air Over	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6316
Opp Drive End Bearing Size	6313	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	34.38 in	Frame Length	16.75 in
Shaft Diameter	2.875 in	Shaft Extension	7.49 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS555787LE-1675	Connection Diagram	A-EE7308T-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
1675	404/405T	16.75 [425.45]	34.38 [873.25]	12.25 [311.15]	13.75 [349.25]	6.88 [174.75]

DRAWING REVISION E	REVISION BY AJW	DATE 05-11-2015
ECO ECO-0077297	APPROVED BY JHA	DATE 05-11-2015
ECO DESCRIPTION REMOVED "T" FROM 1/8" NPT DRAIN CALLOUT		
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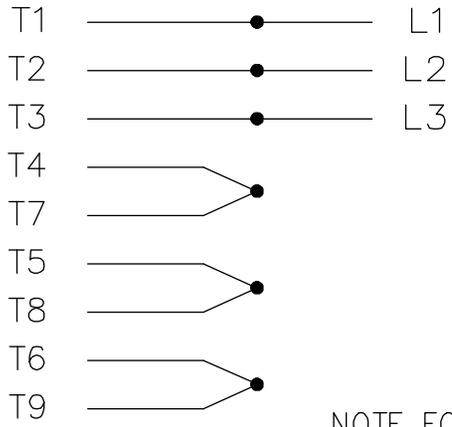
TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC	INCH	mm	ANGLE
.XX	+0.1	[+2.5]	±7 30°
.XXX	+0.03	[+0.76]	
.XXX	+0.005	[+0.127]	
.XXXX	+0.0005	[+0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/381]			
CORNER FILLETS: .02 [51]			
MACHINED SURFACES: 200			
INCH √ mm √			
mm SHOWN IN [BRACKETS]			

DRAWN BY HV	DATE 06-06-2013
APPROVED BY DJK	DATE 06-07-2013
REFERENCE	

Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 400T FR. - TAPPED LEAD HOLE	
MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B
DRAWING NUMBER SS555787LE	SHEET 1 OF 1

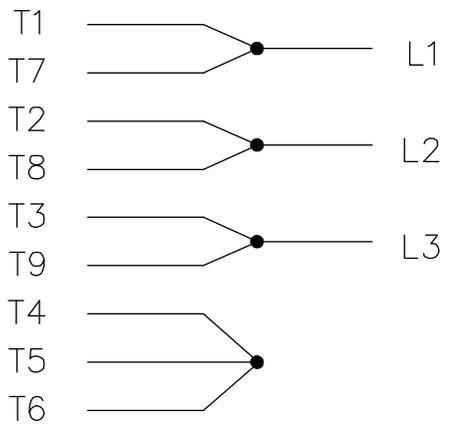
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

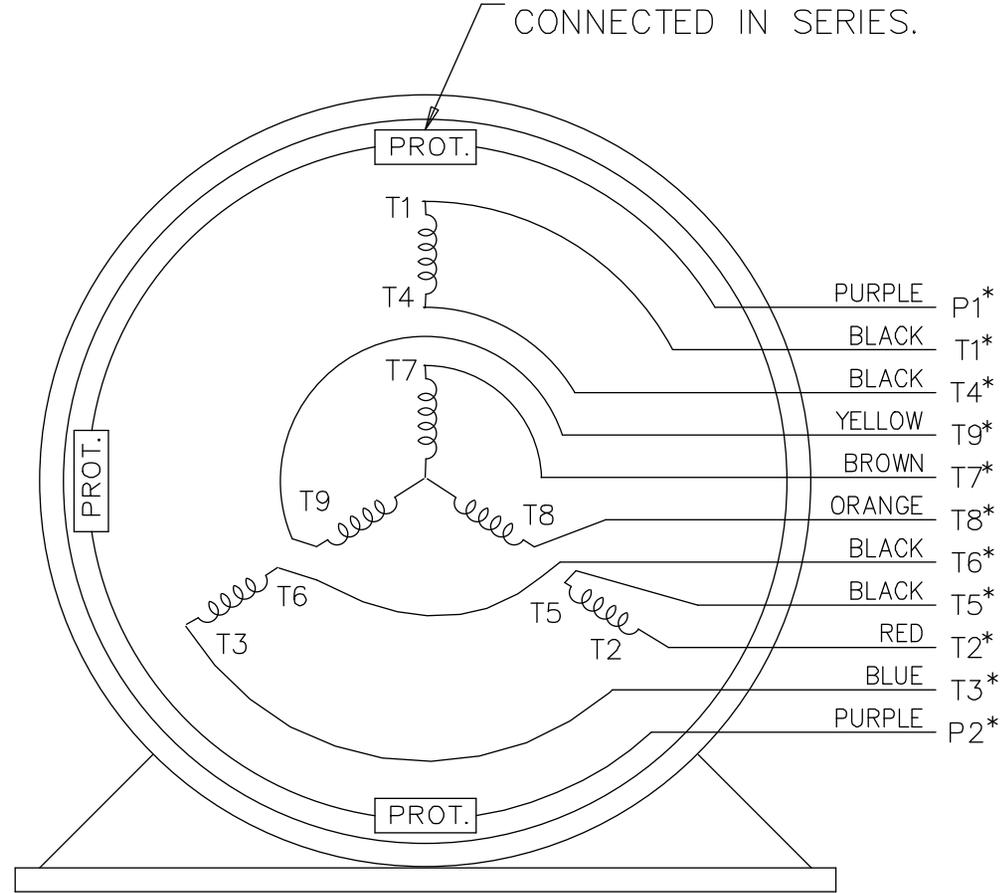


NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1

LOW VOLTAGE



THREMO-PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

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

			TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN TJB 05-07-2002		
NO.	REVISION	BY & DATE	CHK	ANG		FINISH	SCALE	PAGE OF
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	TITLE CONNECTION DIAGRAM 3 PHASE - DUAL VOLTAGE MOTOR	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	MAT'L.	FMF	
							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 A	DRAWING NO. EE7308T-LE	REV. 05
			DIST	LB-WP-LE				



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EET7308T-LE
OUTLINE: B-SS565787LE-1675
WINDING: T405671

CAT #: 824565.00

R7 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
75	56	1200	1185	405TV	TEAO	TTS	G	BC	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	179/89.5#178/89	LINE OR INVERTER	CONT	F	1.15	40	3300
F.L. EFF	95.0	3/4 LD EFF	95.0	1/2 LD EFF	94.5	GTD EFF	94.5	ELECT. TYPE	
F.L. PF	83.0	3/4 LD PF	80.0	1/2 LD PF	70.5	70.5	94.5	SQ CAGE INVERTED	
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)					
332 LB-FT	542	700 LB-FT	211%	800 LB-FT	241%	0			
PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT			
999 DBA	1008 DBA	42.0 LB-FT²	1100 LB-FT²	25 SEC.	2	1400 LB.			

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	ZONAL OR UP OR DWN	SEVERE	NONE	NO	NONE	UE - LEESON (EPO)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL	
DE	BALL	POLYREX EM	T	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		
0.059	0.036	0.299	0.433	7.881	0.080	ODE		

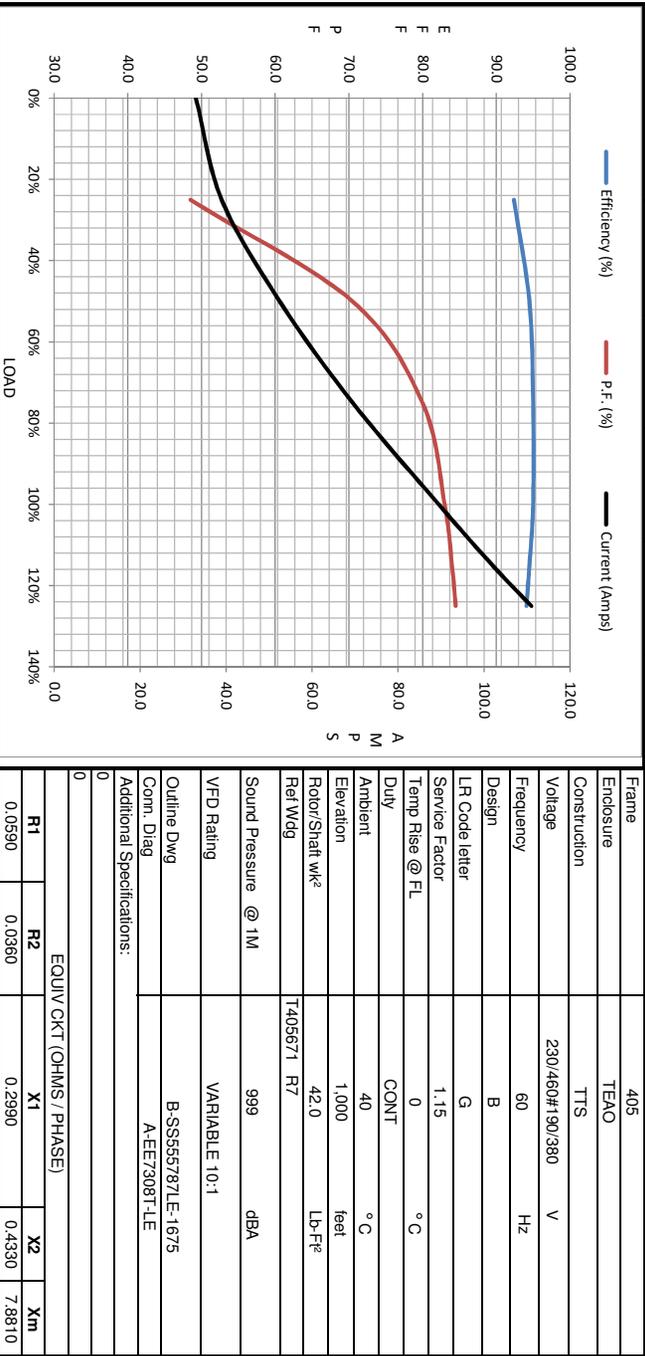
* N O T E S *		INVERTER TORQUE: VARIABLE 10:1	
		INV. HP SPEED RANGE: NONE	
		ENCODER: NONE	
		BRAKE: NONE	
		FT-LB: NA	
		VOLTAGE: NONE	
		UL: Y-(LEESON UL REC)	

DATE:	1/19/2018	Hz:	
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Motor Load Data								
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	33.0	39.0	52.5	69.5	89.5	102	111	542
Torque (ft-lb)	0.00	82.5	165	248	332	382	416	700
HPM	1200	1195	1192	1190	1185	1182	1180	0
Efficiency (%)		92.4	94.5	95.0	95.0	94.5	94.1	
P.F. (%)	3.5	48.5	70.5	80.0	83.0	84.0	84.5	35.0

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:		
0		600	1125	1185	1200	75.0	1200	405	TEAO	TTS	230/460#190/380	60	B	G	1.15	0	CONT	40 °C	1,000	42.0	LB-Fk	7405671 R7	999	dB(A)	VARIABLE 10:1	B-SS556787LE-1675	A-EE7308T-LE	
Current (Amps)	542	475	300	89.5	33.0																							
Torque (ft-lb)	700	625	800	332	0.00																							



EQUIV CKT (OHMS / PHASE)			
R1	R2	X1	Xm
0.0590	0.0360	0.2990	0.4380
			7.8810

