PRODUCT INFORMATION PACKET

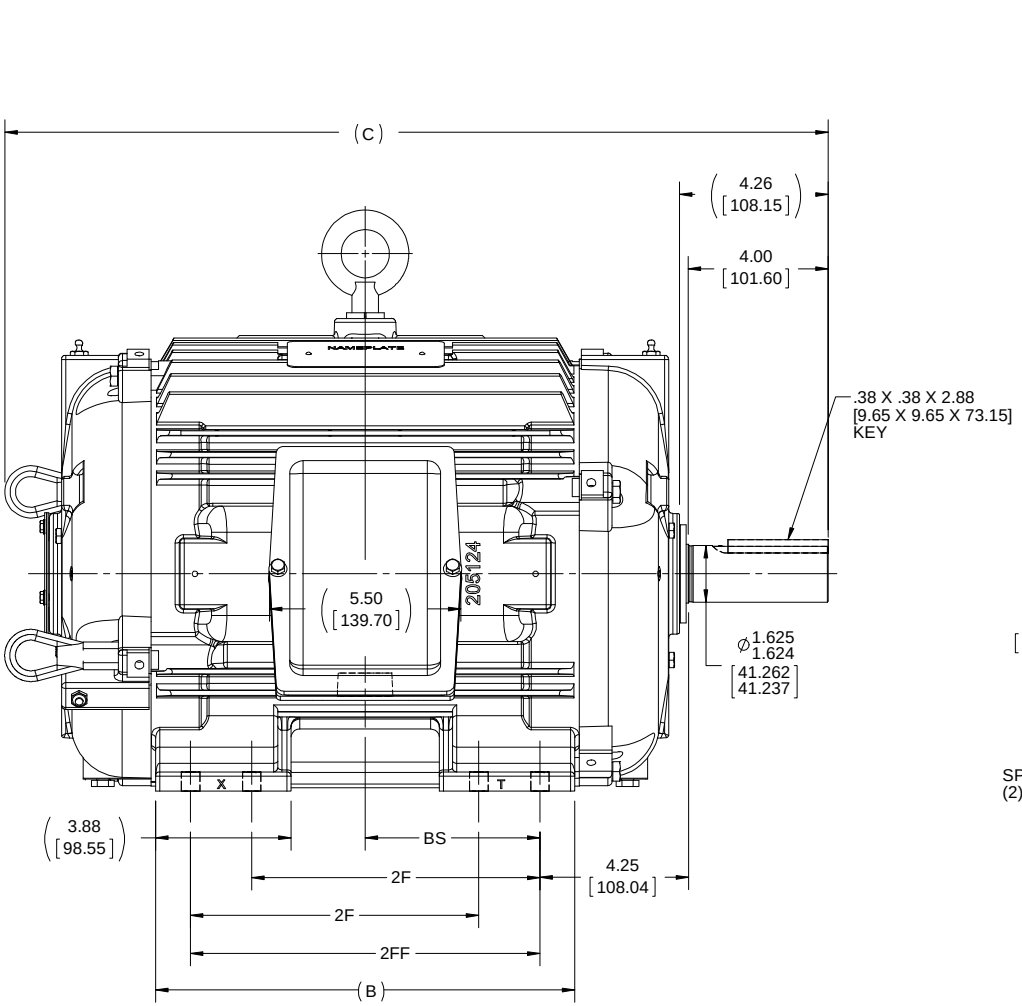
Model No: 256TTTNA16577AA
Catalog No: 824557.00
..10HP..1200RPM.256T.TEAO.230/460V.3PH.60HZ.CONT.40C.1.15SF.RIGID.....COOLING TOWER.....
Cooling Tower

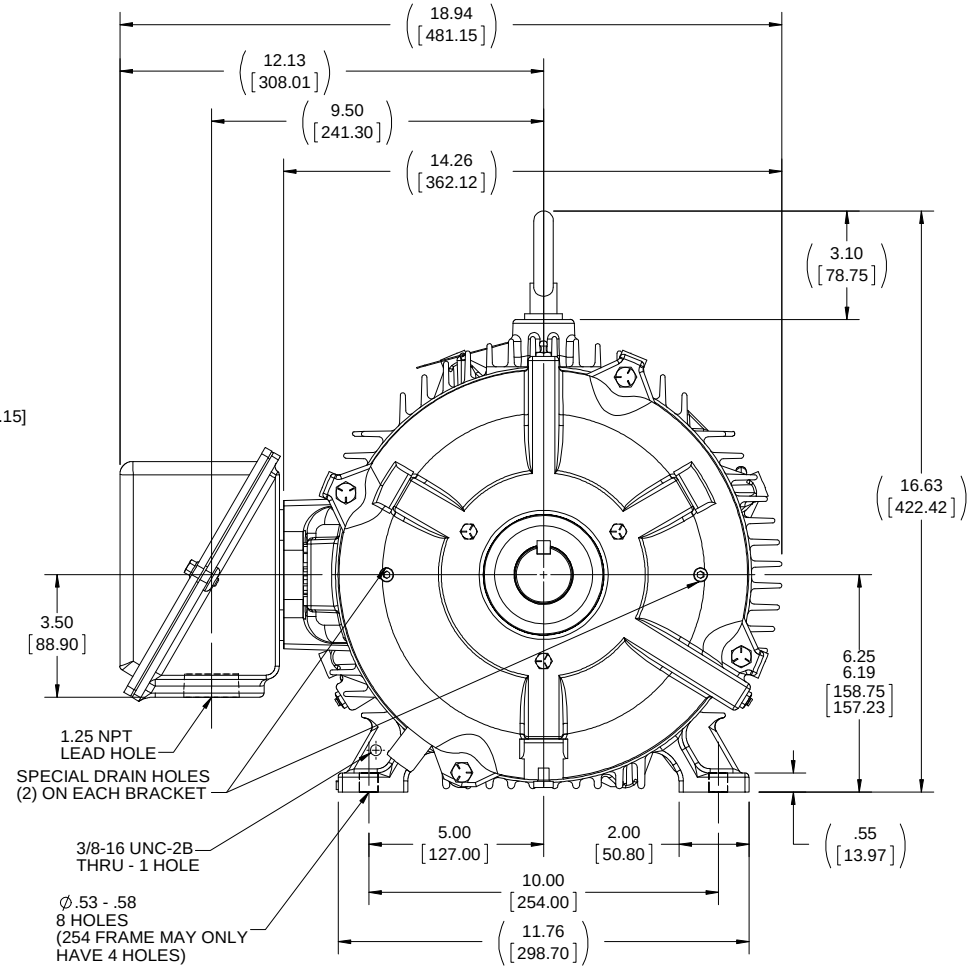
Nameplate Specifications

Output HP	**10 Hp**	Output KW	**7.5 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**26.2/13.1 A**	Speed	**1176 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**91 %**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**H**	Frame	**256TV**
Enclosure	**Totally Enclosed Air Over**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6210**	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	**24.31 in**	Frame Length	**12.25 in**
Shaft Diameter	**1.625 in**	Shaft Extension	**4 in**
Assembly/Box Mounting	**F1/F2 CAPABLE**		
Outline Drawing	**B-SS208432-1225**	Connection Diagram	**A-EE7308**





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. NAMEPLATE READ FROM CONDUIT BOX SIDE OF MOTOR

SPECIAL DRAIN HOLES BOTH BRACKETS

DASH	FRAME	C	B	2F	2FF	BS
1050	254T	21.82 [554.228]	10.50 [266.70]	------- -------	8.25 [209.55]	4.12 [104.65]
1225	256T	23.57 [598.678]	12.00 [304.80]	8.25 [209.55]	10.00 [254.00]	5.00 [127.00]

DRAWING REVISION: B	REVISION BY: NK	DATE: 8/9/2018
ECO: ECO-0150436	APPROVED BY: ST	DATE: 8/9/2018
ECO DESCRIPTION: C - DIMENSION UPDATED		

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.02	[±0.51]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

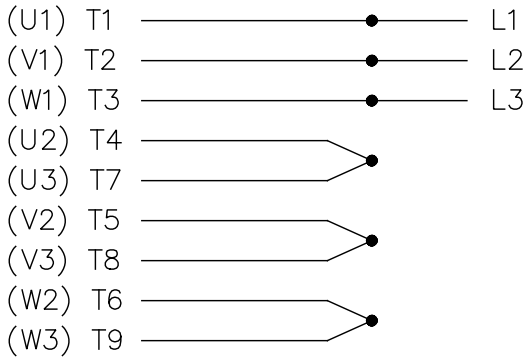
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45 °
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: W. JOERGER	Regal Beloit America, Inc.
DATE: 03-23-2015	
APPROVED BY: E. HEIL	DESCRIPTION: OUTLINE
DATE: 03-23-2015	TEAO - HORIZ OR SHAFT UP/DOWN - 250T FR - INPRO SEAL RR
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS208432 / SHEET: 1 OF 1

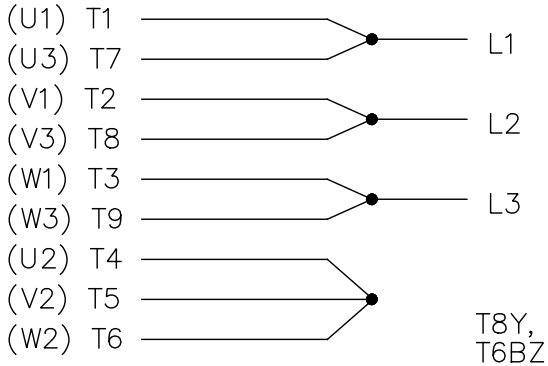
EE7308

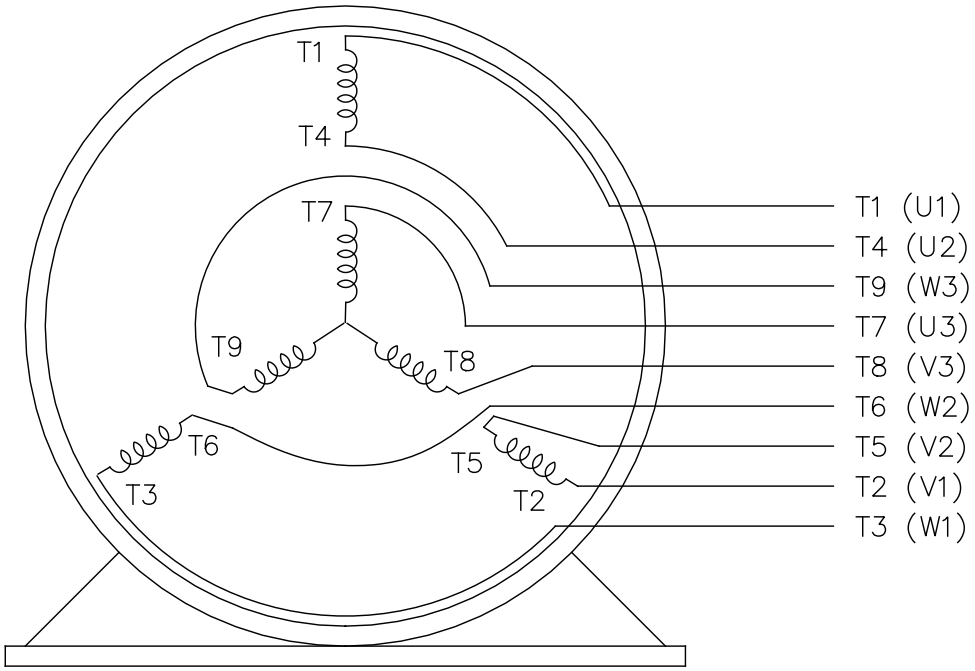
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE





VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

NO.	REVISION	BY & DATE	CHK
5	CHG TO REGAL LOGO	SL 09/10/2015	AB
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
1	REDRAWN	RM 11/20/1990	

TOLERANCES UNLESS SPECIFIED

ANG	DEC.	INCHES
	.X	±.1
	.XX	±.02
	.XXX	±.005
	.XXXX	±.0005
	ANG	±7'30"

Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

CAD FILE ee7308

RFP

DIST WP

DRAWN RM	11/20/1990
CHK ML	11/21/1990
APPD SAS	04/24/2003
SCALE	1=1
REF	
FMF	
PREV	

SIZE	DRAWING NO. PAGE OF	REV.
A	EE7308	5

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308 **CAT #:** 824557.00
OUTLINE: B-SS208432-1225
WINDING: 256674 R11 6

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1200	1176	256TV	TEAO	TTN	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	26.2/13.1&23/11.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.0	1/2 LD EFF	90.2	GTD EFF	ELECT. TYPE
F.L. PF	79.0	3/4 LD PF	72.5	1/2 LD PF	61.0	89.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
44.7 LB-FT	81.0	92.0 LB-FT 206%	139 LB-FT 311%	0	

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA	3.0 LB-FT²	225 LB-FT²	20 SEC.	2	360 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	ZONTAL OR UP OR D	UM SEVERE	NONE	NO	NONE	UE - LEESON (EPOX

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6309	BALL 6210	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	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
0.571	0.491	2.238	2.513	43.168	0.080	ODE

*
NOTES
*

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: Y-(LEESON UL REC)

DATE: 1/22/2018

Data Sheet

Date: 1/22/2018

824557.00

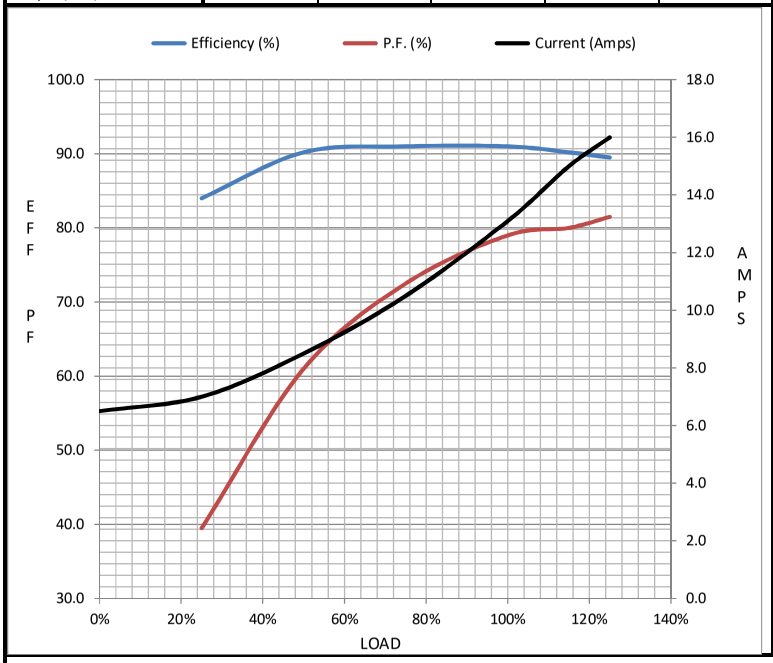
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.5	7.0	8.5	10.5	13.1	15.0	16.0	81.0	
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.7	51.0	56.0	92.0	
RPM	1200	1195	1190	1180	1176	1,170	1165	0	
Efficiency (%)		84.0	90.2	91.0	91.0	90.2	89.5		
P.F. (%)	5.5	39.5	61.0	72.5	79.0	80.0	81.5	41.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	1055	1176	1200
Current (Amps)	81.0	78.0	53.5	13.1	6.5
Torque (ft-lb)	92.0	86.0	139	44.7	0.00



Information Block

HP	10.0	
Sync. RPM	1200	
Frame	256	
Enclosure	TEAO	
Construction	TTN	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	H	
Service Factor	1.15	
Temp Rise @ FL	0	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	3.0	Lb-Ft²
Ref Wdg	256674 R11	
Sound Pressure @ 1M	999	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	B-SS208432-1225	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.5710	0.4910	2.2380	2.5130	43.1680

Speed -Torque Curve