PRODUCT INFORMATION PACKET

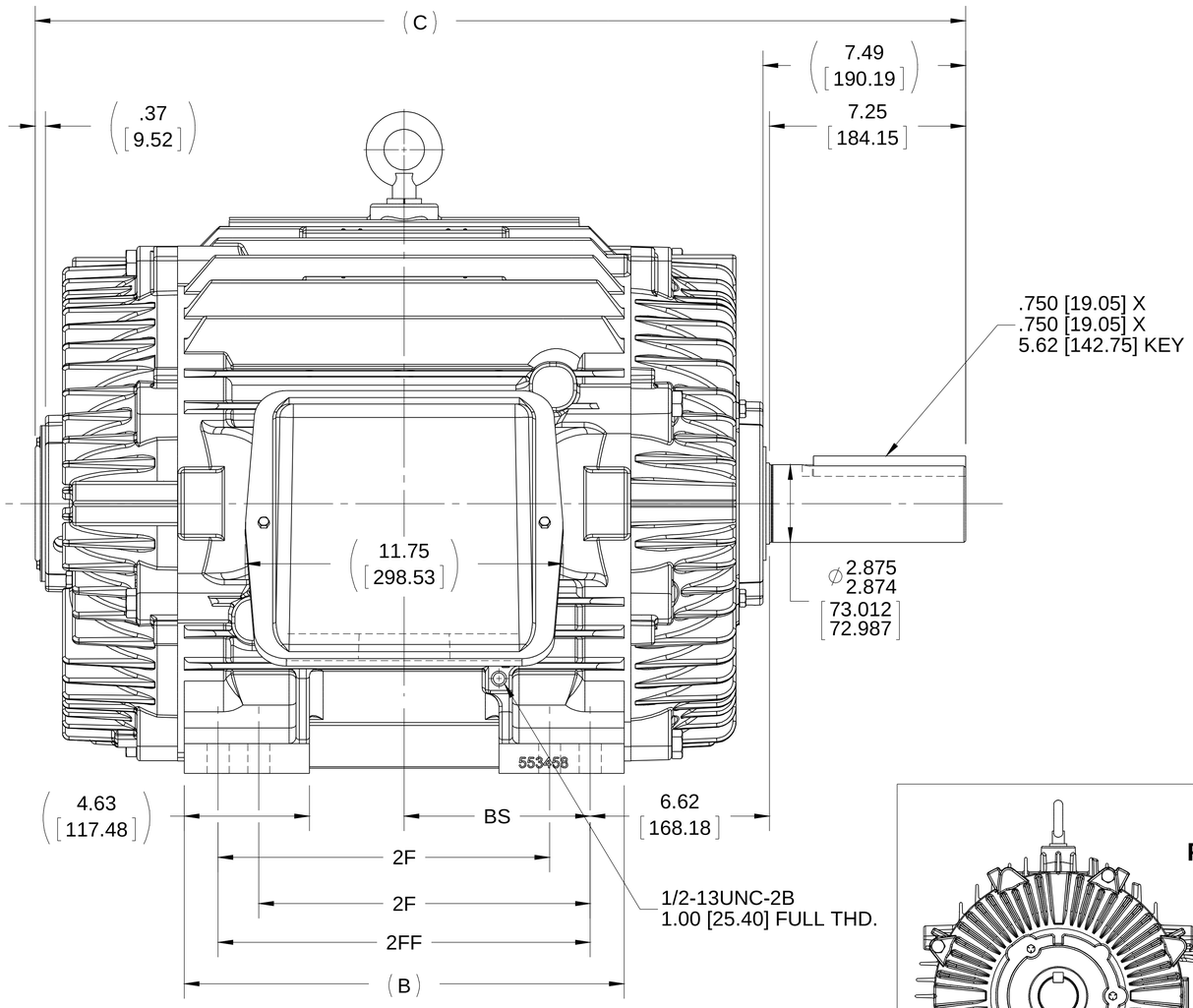
Model No: 824565.00
Catalog No: 824565.00
Severe Duty Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM, 405TV Frame, TEAO

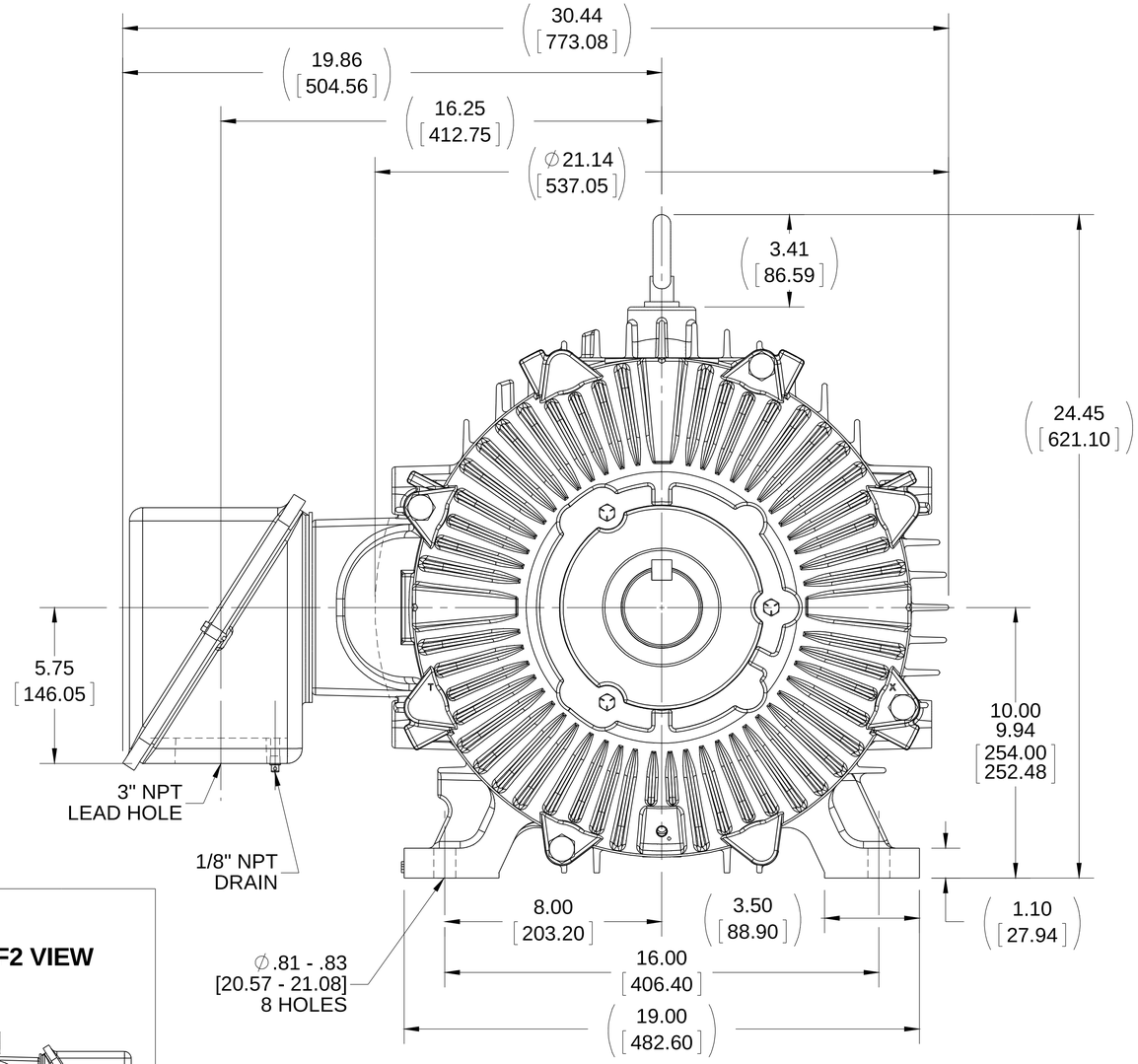
Nameplate Specifications

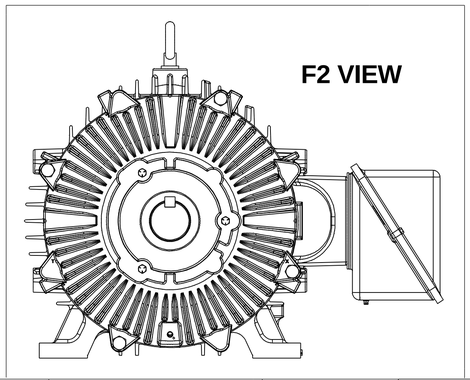
Phase	3	Output HP	75 & 60 Hp
Output KW	56.0 & 45.0 kW	Voltage	230/460 & 190/380 V
Speed	1185 & 985 rpm	Service Factor	1.15 & 1.0
Frame	405TV	Enclosure	Totally Enclosed Air Over
Thermal Protection	No Protection	Efficiency	95 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	179/89.5 & 178/89 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.09 Ohms	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
Inverter Load	VARIABLE 10:1		
Outline Drawing	B-SS555787LE-1675	Connection Drawing	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	REVISION BY	DATE
E	AJW	05-11-2015
ECO	APPROVED BY	DATE
ECO-0077297	JHA	05-11-2015

ECO DESCRIPTION
REMOVED "T" FROM 1/8" NPT DRAIN CALLOUT

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 [.076/.381]
CORNER FILLETS: .02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

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

THIRD ANGLE PROJECTION

Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
400T FR. - TAPPED LEAD HOLE

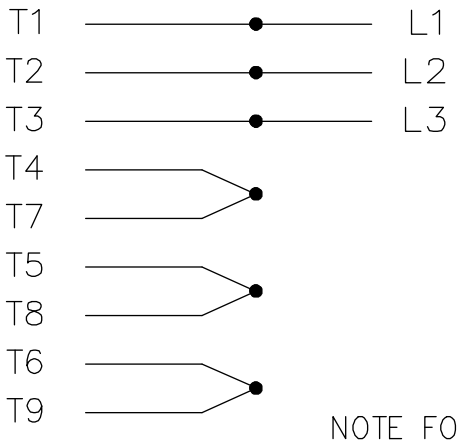
MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS555787LE	1 OF 1

EE7308T-LE

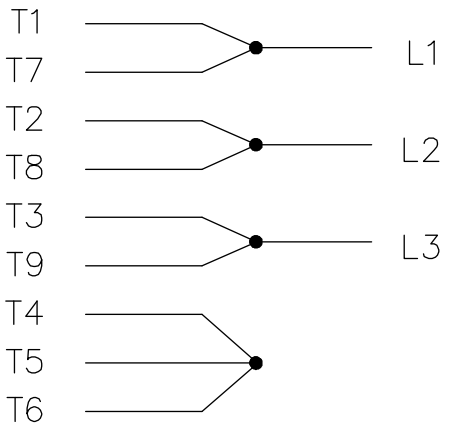
THREE PHASE
DUAL VOLTAGE MOTOR

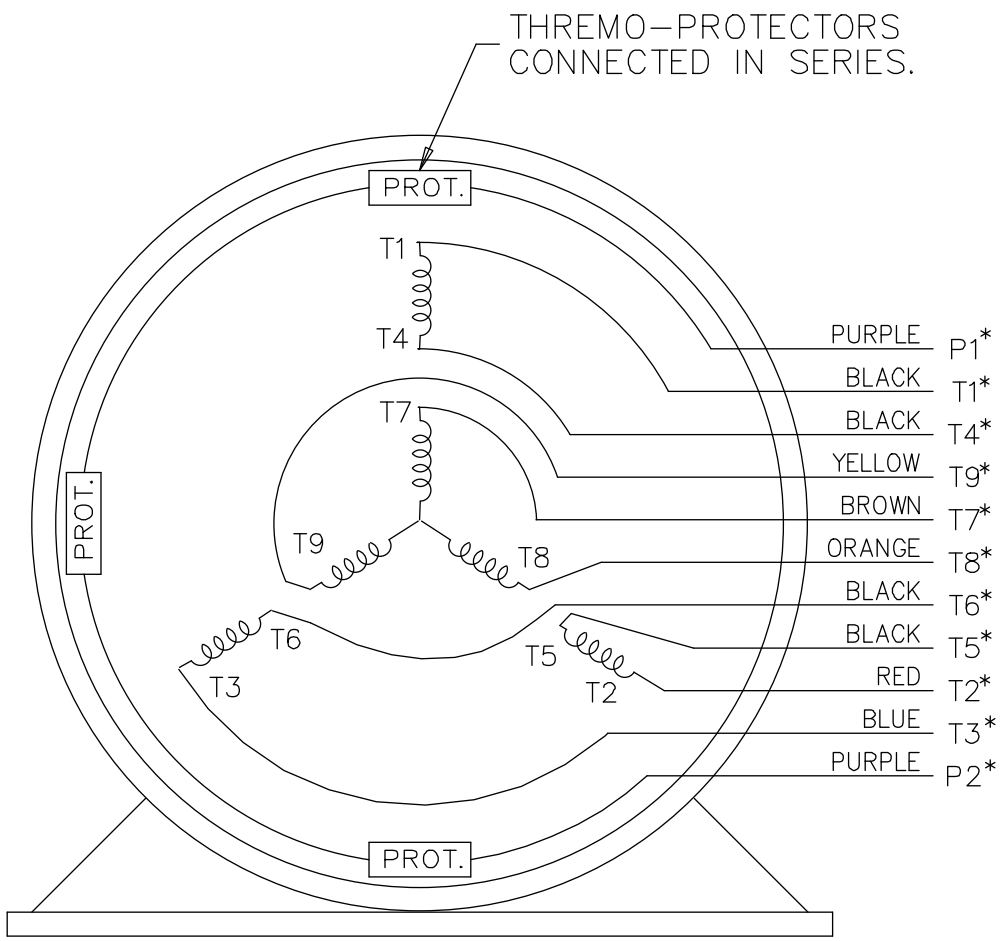
HIGH VOLTAGE



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





VIEW OF TERMINAL END

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

NO.	REVISION	BY & DATE	CHK
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML
03	RE-ISSUE	NJS 04-21-2004	JET
02	REDRAWN	TAT 04-20-2004	ML
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML

TOLERANCES UNLESS SPECIFIED

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

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE CONNECTION DIAGRAM
3 PHASE – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

RFP

CAD FILE EE7308T_LE

DIST LB-WP-LE

DRAWN	TJB	05-07-2002
CHK	ML	05-08-2002
APPD	TB	05-08-2002
SCALE		1=1
REF		
FMF		
PREV		

SIZE	DRAWING NO. PAGE OF	REV.
A	EE7308T-LE	05

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LE **CAT #:** 824565.00
OUTLINE: B-SS555787LE-1675
WINDING: T405671 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	ELECT. TYPE
F.L. PF	83.0	3/4 LD PF	80.0	1/2 LD PF	70.5	94.5	SQ CAGE INV RATED

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	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 6316	BALL 6313	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
0.059	0.036	0.299	0.433	7.881	0.080	ODE

NOTES
*
*
*

INVERTER TORQUE: VARIABLE 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: 1/19/2018

Data Sheet

Date: 1/19/2018

824565.00

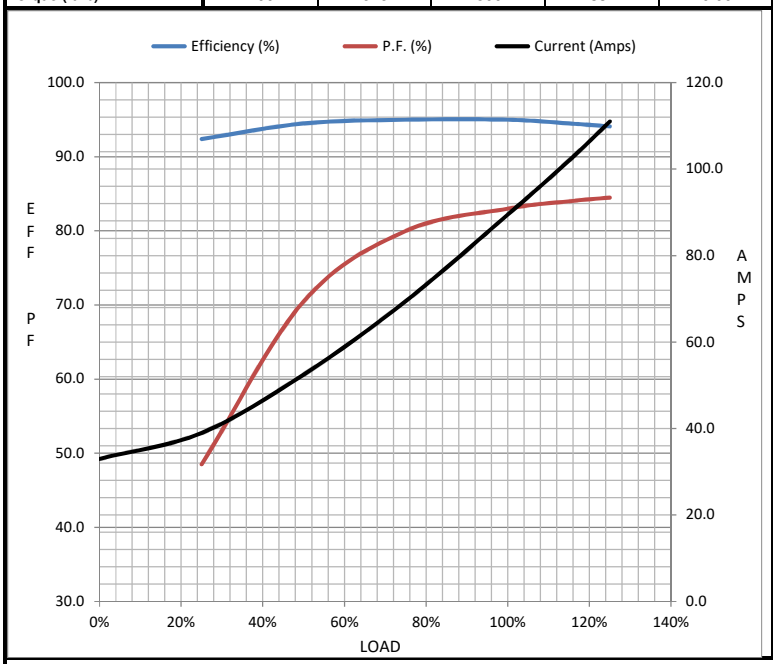
Data @ 460 V

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	
RPM	1200	1195	1192	1190	1185	1,182	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

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1125	1185	1200
Current (Amps)	542	475	300	89.5	33.0
Torque (ft-lb)	700	625	800	332	0.00



Information Block

HP	75.0	
Sync. RPM	1200	
Frame	405	
Enclosure	TEAO	
Construction	TTS	
Voltage	230/460#190/380	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	42.0	Lb-Ft²
Ref Wdg	T405671 R7	
Sound Pressure @ 1M	999	dBA
VFD Rating	VARIABLE 10:1	
Outline Dwg	B-SS555787LE-1675	
Conn. Diag	A-EE7308T-LE	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0590	0.0360	0.2990	0.4330	7.8810