

PRODUCT INFORMATION PACKET

Model No: 444TSTGN16531

Catalog No: U083A

125 HP Explosion Proof Motor, 3 phase, 1800 RPM, 460 V, 444TS Frame, EPFC
Explosion Proof NEMA Motors



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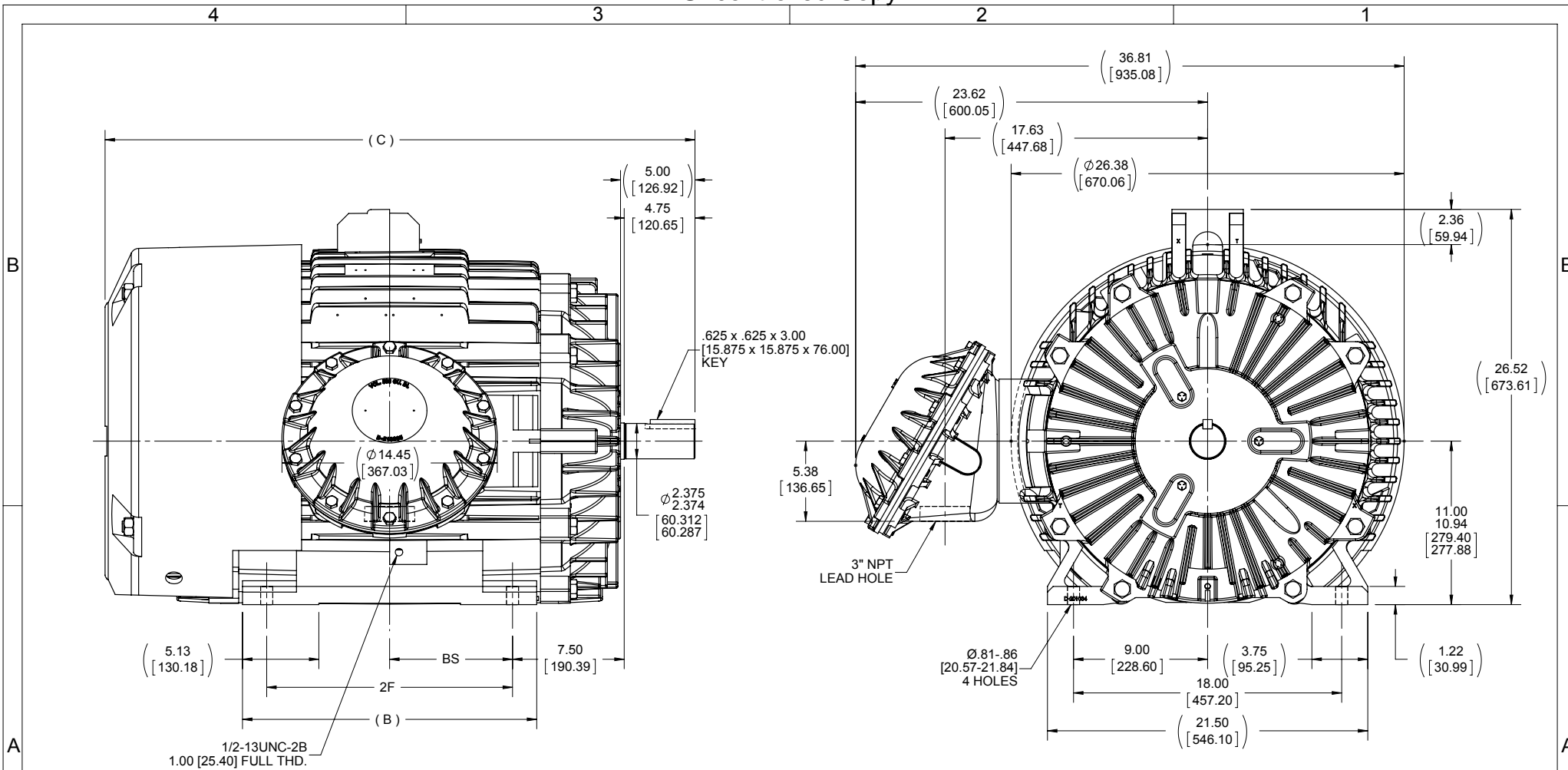
REGAL

Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	143.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	444TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostats (N/C)	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR D CL II GR F&G T3B		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0385 Ohms	Mounting	Rigid base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	37.59 in
Frame Length	18.25 in	Shaft Diameter	2.375 in
Shaft Extension	5 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-SS515918-1825	Connection Drawing	A-EE7300S



- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 3. DIMENSION IN [] DESIGNATE MILLIMETERS.

1/2-13UNC-2B
 1.00 [25.40] FULL THD.

DASH	FRAME	B	C	2F	BS
1825	444TS	17.75 [450.85]	37.59 [954.79]	14.50 [368.30]	7.25 [184.15]
2025	445TS	19.75 [501.65]	39.59 [1005.59]	16.50 [419.10]	8.25 [209.55]

DRAWING REVISION C	REVISION BY JJB	DATE 06-30-2014
ECO ECO-0054447	APPROVED BY TDB	DATE 06-30-2014
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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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 [076/381]	
CORNER FILLETS: .02 [51]	
MACHINED SURFACES: 200 INCH/mm 5.1	
mm SHOWN IN [BRACKETS]	

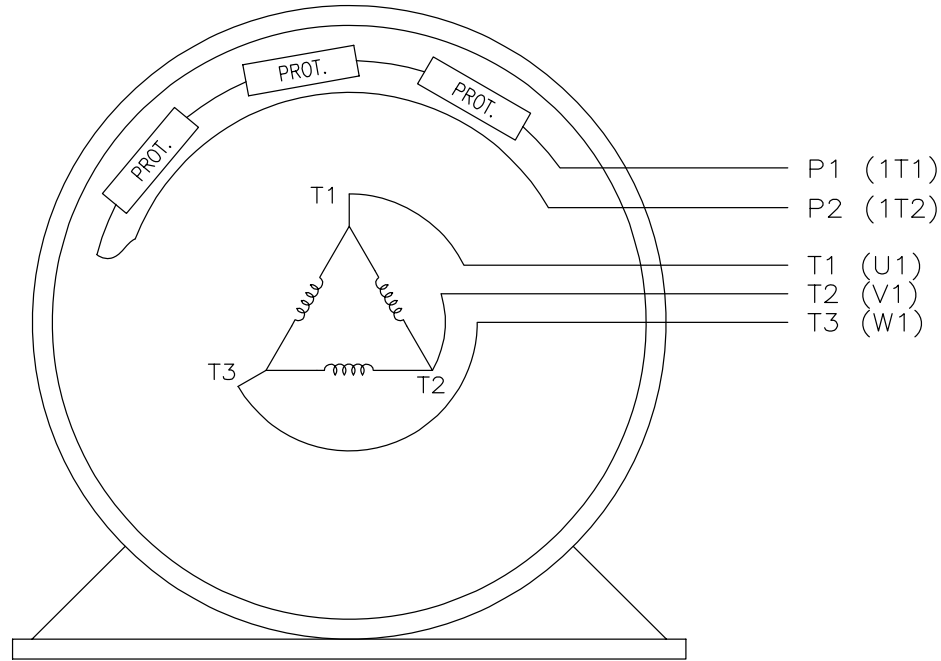
DRAWN BY MH	DATE 01-15-1997
APPROVED BY JL	DATE 02-06-1997
REFERENCE	THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION 444/445TS FR. - EXP PR - STD. - TEFC - TGN	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS515918
SHEET 1 OF 1	

EE7300S

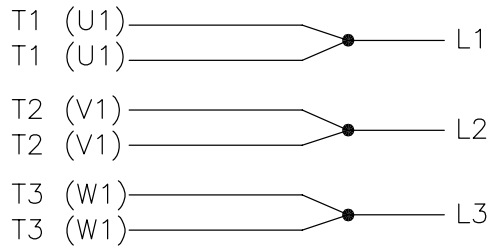
THREE PHASE – SINGLE VOLTAGE MOTOR

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

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



CERTIFICATION DATA SHEET

Model#: 444TSTGN16531 AA **WINDING#:** T444484 NONE 2
CONN. DIAGRAM: A-EE7300S **ASSEMBLY:** F1 ONLY
OUTLINE: B-SS515918-1825

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&100	93&75	1800	1785&1485	444TS	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	143&138	LINE OR INVERTER	CONTINUOU S	F1	1.15/1.15	40	3300

FULL LOAD EFF: 95.8&95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&87	3/4 LOAD PF: 85	1/2 LOAD PF: 79	95.4	SQ CAGE INV RATED	40

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
368 LB-FT	850	480 LB-FT 130	850 LB-FT 231	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	47 LB-FT^2	- LB-FT^2	25 SEC.	2	1950 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	EXP PROOF CL I GR D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6313	BALL 6313	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

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FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/20/2017

444TSGN16531

Customer:



Submital

Attention:

FAREEDA DUDEKULA

Data @ 460 V

Submitted by:

Motor Load Data

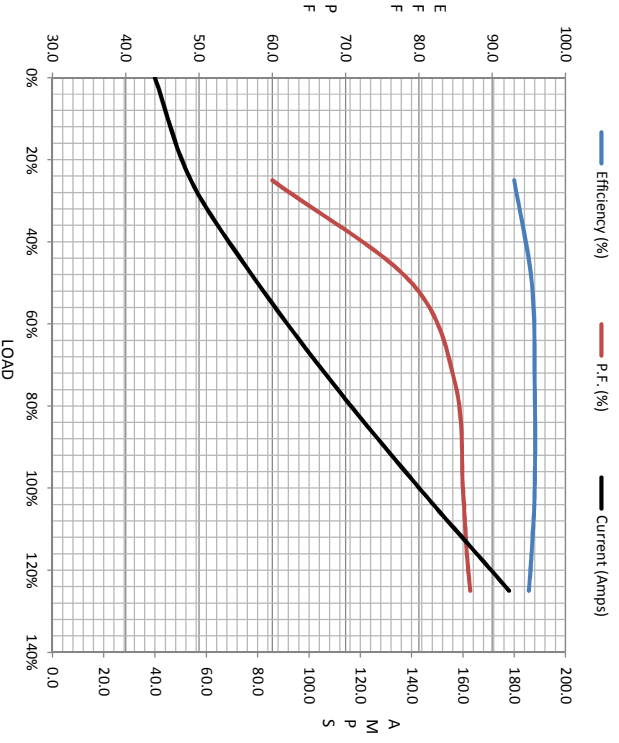
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	40.0	54.0	80.0	110	143	164	178	850
Torque (ft-lb)	0.00	91.5	183	275	368	425	462	480
RPM	1800	1795	1792	1790	1785	1780	1778	0
Efficiency (%)		93.0	95.4	95.8	95.8	95.4	95.0	
P.F. (%)	5.5	60.0	79.0	85.0	86.0	86.5	87.0	26.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	900	1725	1785	1800
Current (Amps)	850	750	575	143	40.0
Torque (ft-lb)	480	450	850	368	0.00

Information Block

HP	125.0
Sync. RPM	1800
Frame	444
Enclosure	TEFC
Construction	TFN
Voltage	460#380 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	65 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wk ^e	47.0 Lb-Fe
Rel Wdg	T444484 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	CONSTANT 2:1
Outline Dwg	B-SS515918-1825
Conn. Diag	A-EE7300S
Additional Specifications:	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.0280	0.0160
X1	X2
0.2270	0.2080
Xm	
6.0840	



Speed - Torque Curve

