PRODUCT INFORMATION PACKET



Model No: 445TSTGN16531
Catalog No: U084A
Example 2 April 2 Ap

Hazardous Duty® Explosion Proof Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM,

445TS Frame, EPFC



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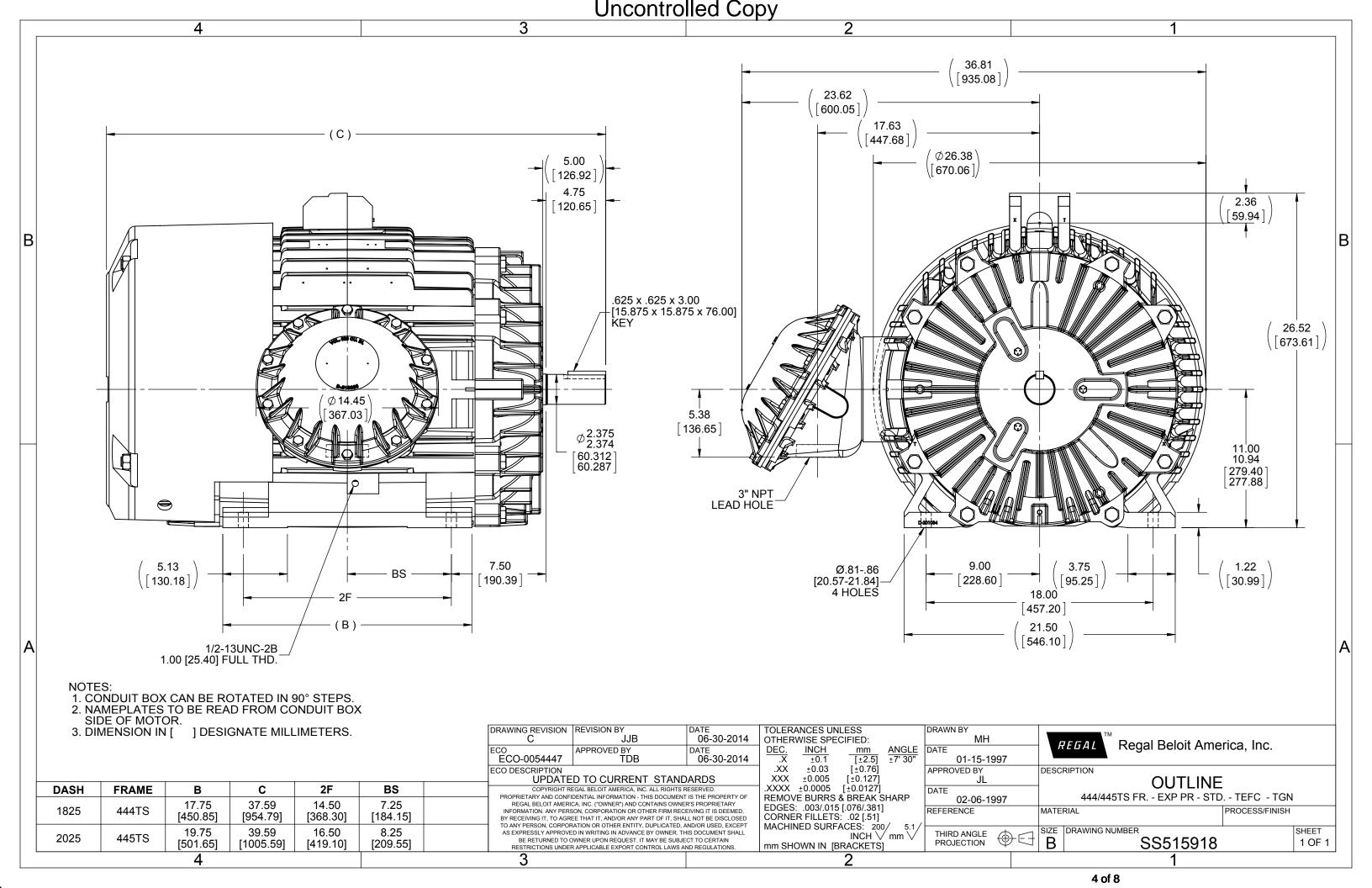
Nameplate Specifications

Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95.8 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	172 & 170 A	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	UL Listed And CSA Certified	CSA	Υ
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0275 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	тѕ	Overall Length	39.59 in
Frame Length	20.25 in	Shaft Diameter	2.375 in
Shaft Extension	5 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Connection Drawing	A-EE7300S	Outline Drawing	B-SS515918-2025

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Uncontrolled Copy THREE PHASE - SINGLE VOLTAGE MOTOR TO REVERSE ROTATION: INTERCHANGE ANY TWO LINE LEAD CONNECTIONS PROT. Т3 IF MOTOR HAS MULTIPLE T'S PER LEAD CONNECT TOGETHER LIKE T'S T1 (U1)_____ T1 (U1)-

T2 (V1) T2 (V1) T3 (W1) T3 (W1)-A-9806 DECAL

VIEW OF TERMINAL END

					TOL UNLES	ERAN S SP	ICES ECIFIED				DRAWN	KL 12-15	5-1999
					DEC.	IN	CHES	REGAL REGAL-BELOIT CO	RPOR	ATION	снк	DJK 12-1	5-1999
F	UPDATED TITLE BLOCK	HV	02-27-2014	EWH	.X	±	_	BELOIT FIEST DEEST 33	The Best Coll Civilor			DJK 12-1	5-1999
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB	08-02-2010		.XX	±	_	TITLE CONNECTION DIAGRAM - EXTE	RNAL		SCALE	1=1	1
2	ADDED IEC MARKINGS MU61770	KL	09-16-2004	EAB	.xxx	±	_	SINGLE VOLTAGE 30 MOTOR			REF		
1	NEW DRAWING	KL	12-16-1999		.xxxx	±	-	MAT'L.			FMF		
NO.	REVISION	BY	& DATE	CHK	ANG	±	_	FINISH			PREV		
	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT			RFP				CAD FILE ee7300s	SIZE	DRAWING NO	D. PAG	E OF	REV.
	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE THIS PRINT				WA-	-LB-	·SB		Α	El	E7300	S	F

EE7300S

- P1 (1T1)

P2 (1T2)

T1 (U1)

T2 (V1) T3 (W1)

CERTIFICATION DATA SHEET

445TSTGN16531 AA WINDING#: T4454127 NONE 1 Model#:

ASSEMBLY: F1 ONLY CONN. DIAGRAM: A-EE7300S

OUTLINE: B-SS515918-2025

TYPICAL MOTOR PERFORMANCE DATA

	HP	KW	,	SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA CODE	DESIGN
	150&125	112&	93	1	1800	1785&1485	445TS	EPF	c	G	В
Γ	PH	Hz	VOL	.TS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
	3	60/50	460#3	380	172&170	LINE OR	CONTINUOU	F1	1.15/1.15	5 40	3300

FULL LOAD EFF: 95.8&95.8	3/4 LOAD EFF: 96.2	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 85&86	3/4 LOAD PF: 82	1/2 LOAD PF: 74	95.4	SQ CAGE INV RATED	60

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
441 LB-FT	1085	800 LB-FT 181	1150 LB-FT 261	65

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	1000 LB-FT^2	25 SEC.	2	2050 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET	ODE BRACKET	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
LITPE	ITPE	1175		ווטע	LOCATION	COVER		!
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM	EXP PROOF CL	FALSE	NONE	BLUE (EPOXY)
				SEVERE DUTY	I GR C&D CL II			
					GR F&G T3B			

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

	THERMO-PF	ROTECTORS	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 10:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE NONE NONE NONE NONE PPR

BRAKE: NONE NONE NONE P/N NONE NONE NONE

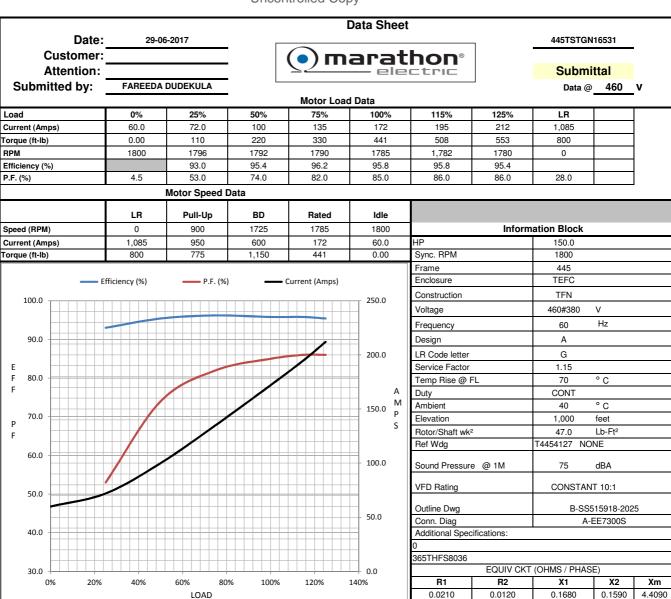
- FT-LB NONE V NONE Hz

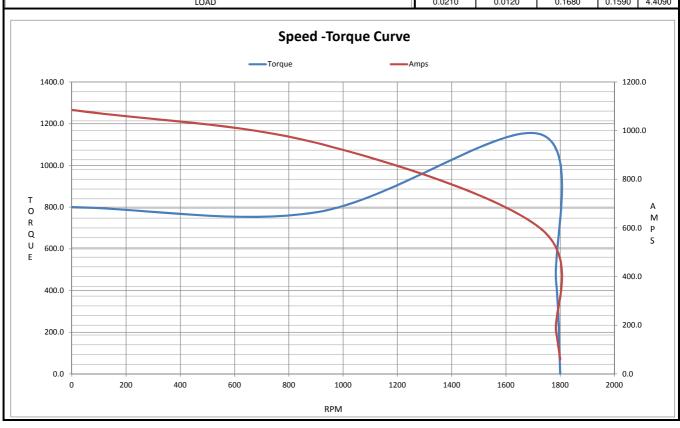
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^{**} Subject to change without notice.





CERTIFICATE OF COMPLIANCE

 Certificate Number
 20220524- E12044

 Report Reference
 E12044-19970314

Issue Date 2022-MAY-24

Issued to: REGAL BELOIT AMERICA INC

1946 W COOK RD

FORT WAYNE IN 46818

Tradename: Marathon

This certificate confirms that representative samples of

MOTORS FOR USE IN HAZARDOUS LOCATIONS

Electric motors for use in hazardous locations; Class I, Groups C and D; Class II, Groups F and G; Inclusive of Model Number 445TSTGN16531 (may have prefix and/or

suffix characters).

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674 - Electric Motors and Generators for Use in Division

1 Hazardous (Classified) Locations,

CSA C22.2 No. 145, Electric Motors and Generators for

Use in Hazardous (Classified) Locations

Additional Information: See the UL Online Certifications Directory at

https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Bambles

Bruce Mahrenholz, Director North American Certification Program

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