

PRODUCT INFORMATION PACKET

Model No: 143THTN8036

Catalog No: Y986

1 HP Variable Speed Motor, 3 phase, 1800 RPM, 230/460 V, 143TC Frame, TENV
2000:1 Brake Motors





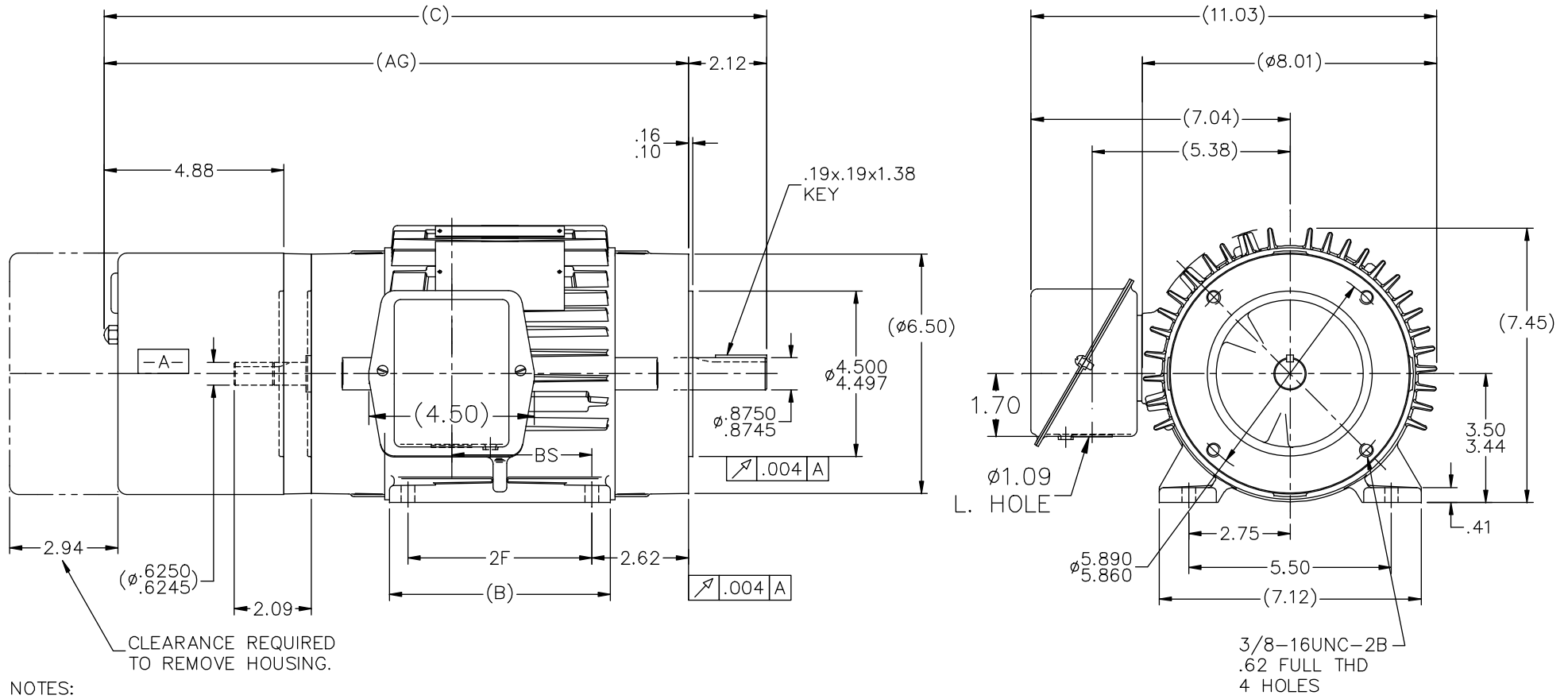
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3.0/1.5 A	Speed	1756 rpm
Service Factor	1	Phase	3
Efficiency	85.5 %	Power Factor	72
Duty	Continuous (S1)	Insulation Class	F
Design Code	INV	KVA Code	M
Frame	143TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostats (N/C)	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	13.8 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	17.00 in
Frame Length	5.25 in	Shaft Diameter	0.875 in
Shaft Extension	2.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	104965-525	Connection Drawing	EE7308T

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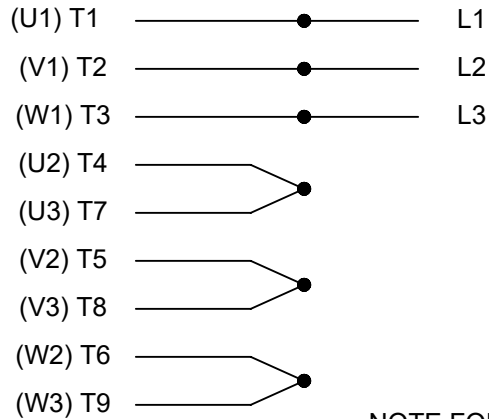


- NOTES:
 1- BOX CAN BE ROTATED IN 90° STEPS.
 2- BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3- NAMEPLATE READ FROM CONDUIT BOX SIDE.

525	143T	17.00	14.88	5.00	4.00	2.81	
625	145T	18.00	15.88	6.00	5.00	3.81	
DASH	FRAME	C	AG	B	2F	BS	

5	CORRECTED COND BOX VIEW PER ECR-0044247	UD 12-10-13	AB	TOLERANCES UNLESS SPECIFIED		DRAWN DRS 05-24-2001
4	REDRAWN IN AUTOCAD	TAT 06-24-2005	DRS	DEC. INCHES		CHK ML 06-19-2001
3	REVISED TO SHOW ADAPTER B-92093A, AND REMOVED IF USED NOTE ON 31288	NJS 08-31-2001	.X	±.1	TITLE OUTLINE - C' FACE - TS - TENV 140T FR.-BRAKE & PROVISIONS FOR TACH.	APPD GK 06-19-2001
2	UPDATED SHAFT EXTENSION ON O.D.E AND ADDED ADAPTER NOTE	DRS 08-17-2001	.XX	±.03		SCALE 3=B
			.XXX	±.005	MAT'L.	REF
			.XXXX	±.0005	FINISH	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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 104965
					DIST WP	SIZE B
						DRAWING NO. 104965
						PAGE 5
						REV. 5

HIGH VOLTAGE



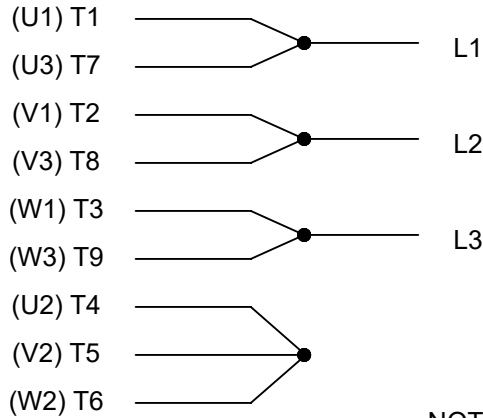
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



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

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.	
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992		
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR	
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1
			THIRD ANGLE PROJECTION			

CERTIFICATION DATA SHEET

Model#: 143THTN8036 AA WINDING#: ZT492 F 3
 CONN. DIAGRAM: A-EE7308T ASSEMBLY: F1/F2 CAPABLE
 OUTLINE: A-104965-525

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1	0.75	1800	1756	143TC	TENV	M	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	3/1.5	INVERTER ONLY	CONTINUOUS (S1)	F3	1.0	40	3300

FULL LOAD EFF: 85.5	3/4 LOAD EFF: 86.5	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 72	3/4 LOAD PF: 67	1/2 LOAD PF: 53.5	82.5	SQ CAGE INV DUTY	1.7 / .9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	27 / 13.5	10.8 LB-FT 360	14 LB-FT 467	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.1 LB-FT^2	0 LB-FT^2	10 SEC.	0	72 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
8.094	5.4812	11.644	10.366	301.04
RM	ZREF	XR	TD	TD0
12070	284	1.7	0.0075	0.15

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE AND ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
6205	6205						

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

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INVERTER TORQUE: CONSTANT 2000:1
INV. HP SPEED RANGE: 2.0 X BASE SPEED
ENCODER: PROVISIONS ONLY
NONE NONE
NONE NONE PPR
BRAKE: REGAL SUPPLIED AND MOUNT

NONE	
STEARNS	P/N 91697-6A1KB
56,000	NEMA 2
6 FT-LB	208-230/460-190/380 V
60/50 Hz	

DATE: 06/21/2017 11:38:27 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 15-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



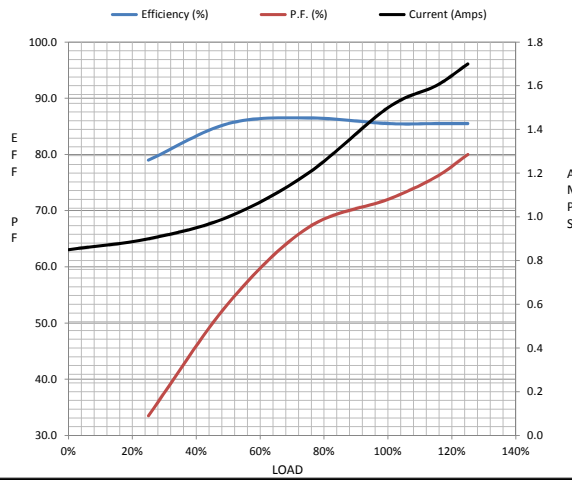
143THTN8036

Submittal

Data @ 460 V

Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	0.85	0.90	1.00	1.20	1.50	1.60	1.70	13.5	
Torque (ft-lb)	0.00	0.75	1.50	2.20	3.0	3.4	3.8	10.8	
RPM	1800	1790	1780	1768	1756	1,752	1745	0	
Efficiency (%)		79.0	85.5	86.5	85.5	85.5	85.5		
P.F. (%)	9.5	33.5	53.5	67.0	72.0	76.0	80.0	67.0	

Motor Speed Data						Information Block				
	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	600	1300	1756	1800	HP	1.0			
Current (Amps)	13.5	12.5	9.0	1.50	0.85	Sync. RPM	1800			
Torque (ft-lb)	10.8	11.0	14.0	3.0	0.00	Frame	143			
						Enclosure	TENV			
						Construction	TTN			
						Voltage	230/460 V			
						Frequency	60 Hz			
						Design	A			
						LR Code letter	M			
						Service Factor	1.15			
						Temp Rise @ FL	40 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk²	0.10 Lb-Ft²			
						Ref Wdg	ZT492 F			
						Sound Pressure @ 1M	62 dBA			
						VFD Rating	CONSTANT 2000:1			
						Outline Dwg	A-104965-525			
						Conn. Diag	A-EE7308T			
						Additional Specifications:				
						0				
						365THFS8036				
						EQUIV CKT (OHMS / PHASE)				
						R1	R2	X1	X2	Xm
						8.0940	5.4810	11.6440	10.3660	301.0400



HP	1.0			
Sync. RPM	1800			
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Construction	TTN			
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Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
8.0940	5.4810	11.6440	10.3660	301.0400

