PRODUCT INFORMATION PACKET

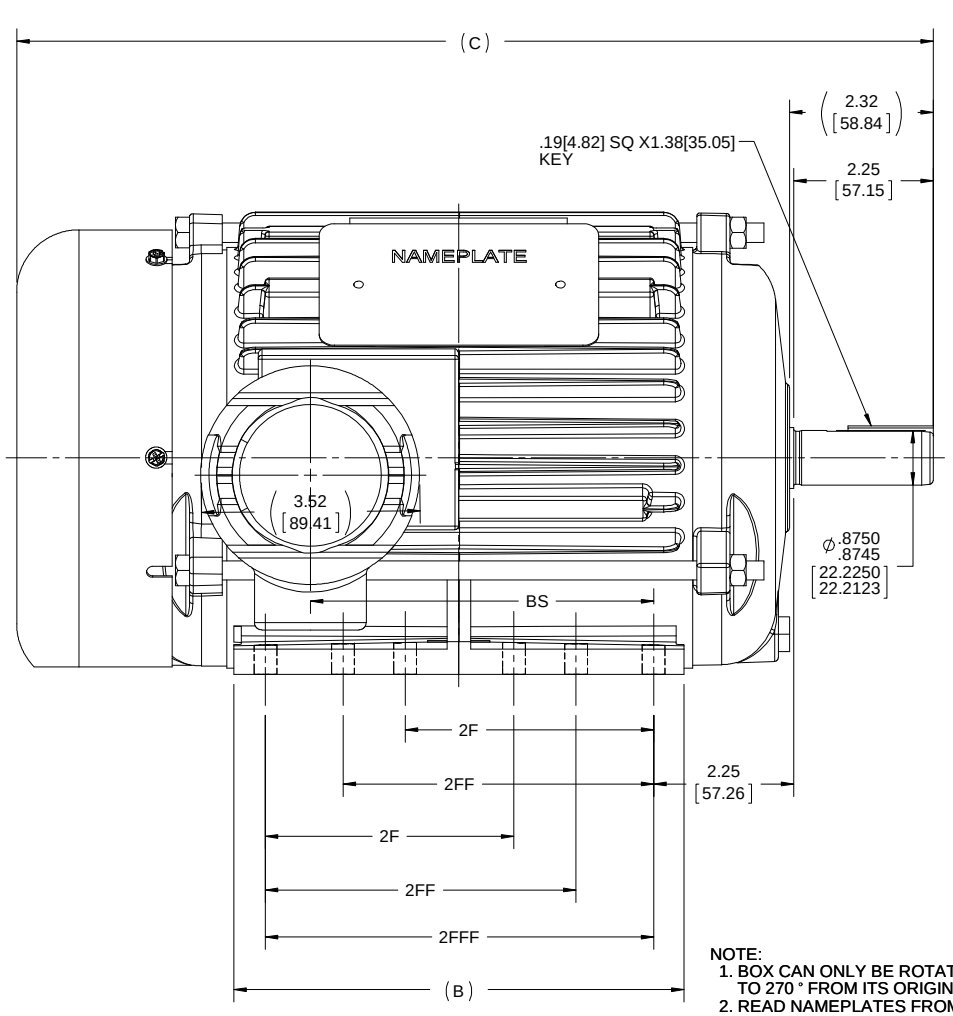
Model No: 143TTGN6532
Catalog No: U986A
1 HP Explosion Proof Motor, 3 phase, 1800 RPM, 230/460 V, 143T Frame, EPFC
Explosion Proof NEMA Motors

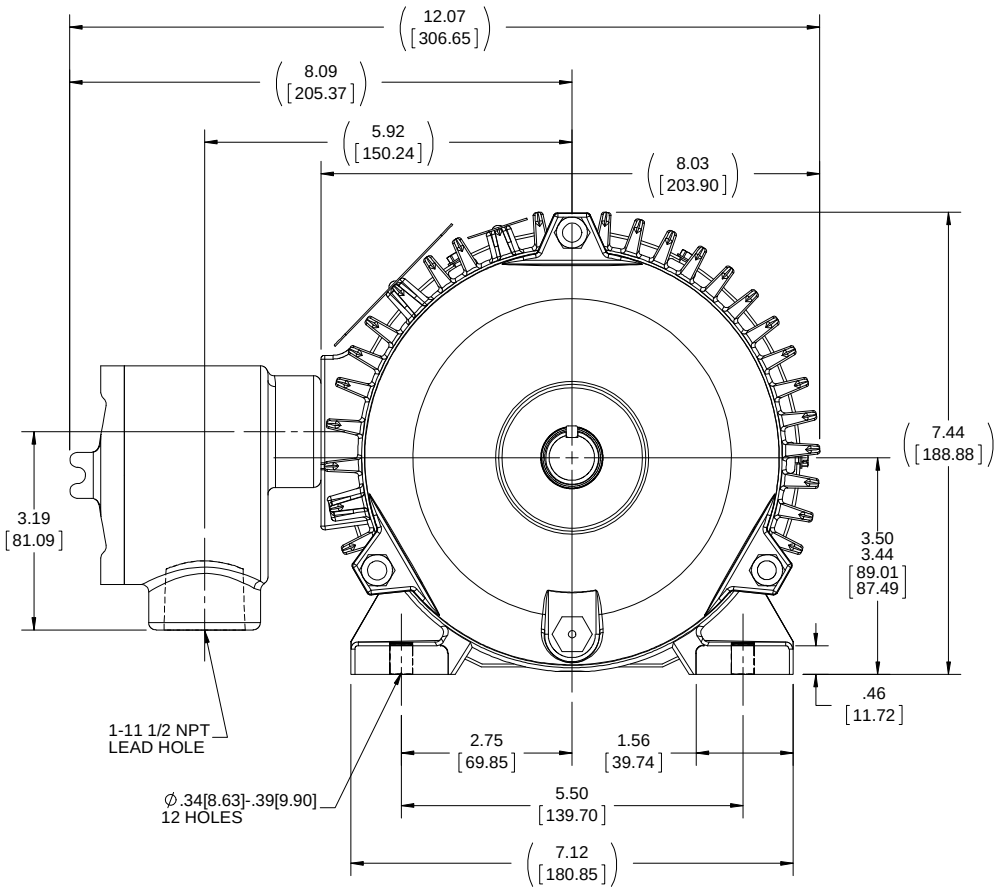
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3.0/1.5 A	Speed	1735 rpm
Service Factor	1.15	Phase	3
Efficiency	85.5 %	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	M
Frame	143T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostats (N/C)	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&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	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	14.73 in
Frame Length	7.50 in	Shaft Diameter	0.875 in
Shaft Extension	2.31 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	105937-750	Connection Drawing	EE7308T





NOTE:
1. BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270 ° FROM ITS ORIGINAL POSITION.
2. READ NAMEPLATES FROM C'BOX SIDE OF MOTOR

DASH	FR.	C	B	BS	2F	2FF	2FFF
750	143/5	14.76[374.90]	7.25[184.15]	5.53[140.46]	4.00[101.60]	5.00[127.00]	6.25[158.75]

DRAWING REVISION: E	REVISION BY: R. ISLAVATH	DATE: 10-09-2018
ECO: ECO-0156724	APPROVED BY: JD	DATE: 11-16-2018
ECO DESCRIPTION: OUTLINE CONVERSION PROJECT		

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] X 45 °
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: CDC	
DATE: 02-23-2005	
APPROVED BY: CDC	
DATE: 02-24-2005	
REFERENCE: CAD FILE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

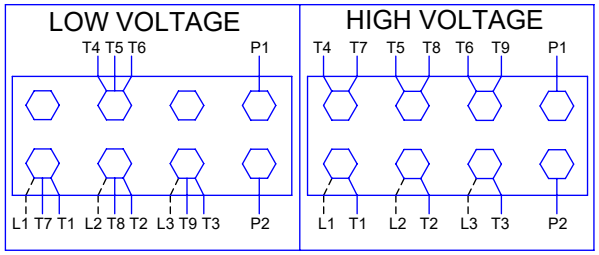
DESCRIPTION: OUTLINE
140 FR. - EXP.PR. - (629 NEW DESIGN)

MATERIAL | PROCESS/FINISH

SIZE: B | DRAWING NUMBER: 105937 | SHEET: 1 OF 1

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

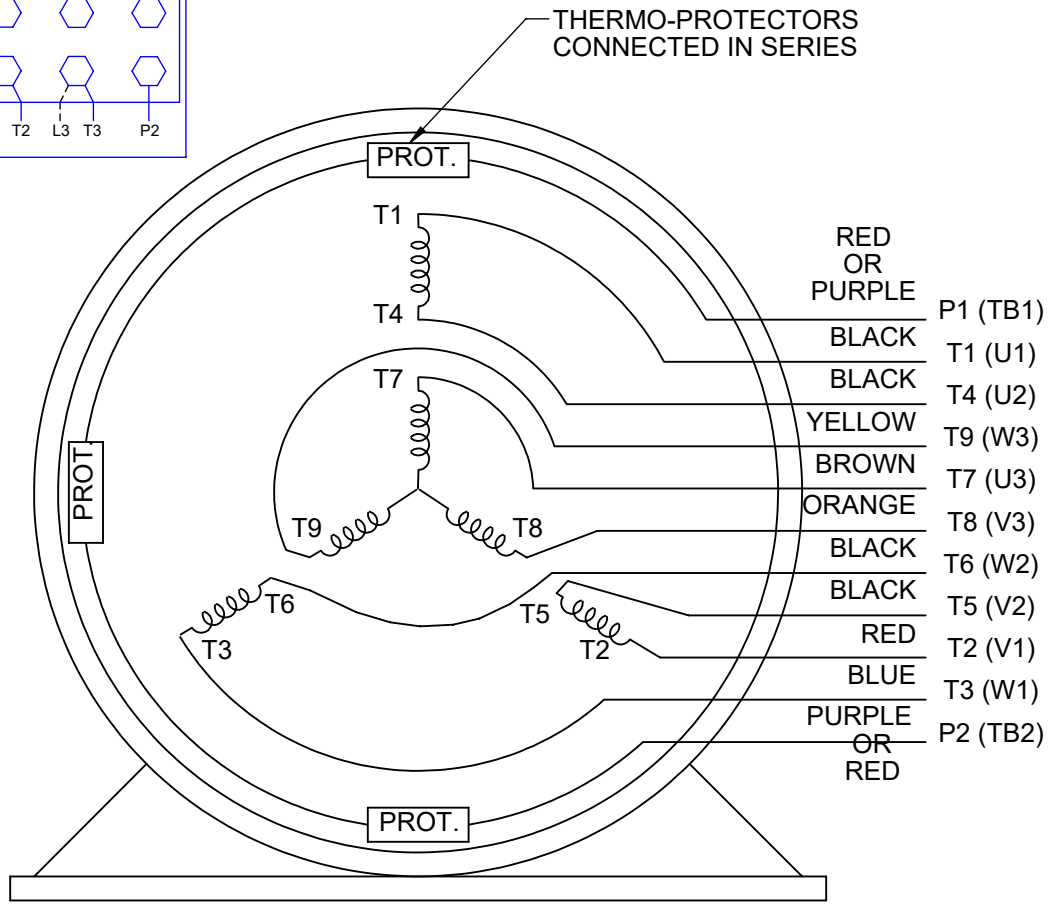


NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6

THREE PHASE DUAL VOLTAGE MOTOR



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
				DATE: 05-13-1992	3 PHASE - DUAL VOLTAGE MOTOR
				REFERENCE: EE7308/EE7300	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A — DRAWING NUMBER: EE7308T — SHEET: 1 OF 1

CERTIFICATION DATA SHEET

Model#:	143TTGN6532 AA	**WINDING#:**	ZT492 R16 3
CONN. DIAGRAM:	A-EE7308T	**ASSEMBLY:**	F1 ONLY
OUTLINE:	A-105937-750		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1	.75	1800	1735	143T	EPFC	M	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	3/1.5	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 85.5	3/4 LOAD EFF: 85.5	1/2 LOAD EFF: 84	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 RATED	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	11 LB-FT 367	14 LB-FT 467	21

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	0.1 LB-FT^2	7 LB-FT^2	20 SEC.	2	55 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	TRUE	EXP PROOF CL I GR C&D CL II GR F&G T3B	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	6203						

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 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/23/2017 12:35:54 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/19/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

143TTGN6532

Submittal

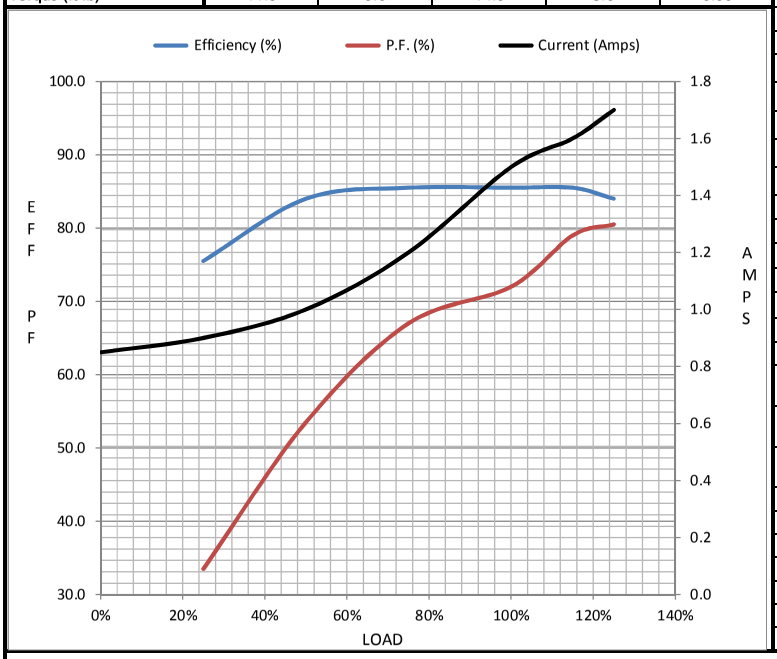
Data @ 460 V

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	0.74	1.50	2.20	3.0	3.5	3.8	11.0	
RPM	1800	1785	1770	1755	1735	1,730	1725	0	
Efficiency (%)		75.5	84.0	85.5	85.5	85.5	84.0		
P.F. (%)	10.0	33.5	53.5	67.0	72.0	79.0	80.5	67.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1735	1800
Current (Amps)	13.5	12.1	9.0	1.50	0.85
Torque (ft-lb)	11.0	9.9	14.0	3.0	0.00



Information Block

HP	1.0
Sync. RPM	1800
Frame	143
Enclosure	TEFC
Construction	TFN
Voltage	230/460 V
Frequency	60 Hz
Design	A
LR Code letter	M
Service Factor	1.15
Temp Rise @ FL	21 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.10 Lb-Ft²
Ref Wdg	ZT492 R16
Sound Pressure @ 1M	60 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	A-105937-750
Conn. Diag	A-EE7308T
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
7.8610	5.4770	11.6360	10.3590	300.8280

Speed -Torque Curve