

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 145THTN19058
Catalog No: W513A
2,1800,TENV,145T,3/60/460
Severe Duty



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REGAL

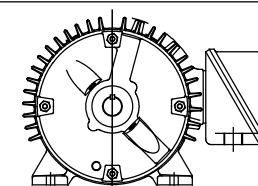


Nameplate Specifications

Output HP	2 Hp	Output KW	1.49 kW
Frequency	60 Hz	Voltage	460 V
Current	3 A	Speed	1740 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Duty	CONTINUOUS
Insulation Class	F	Design Code	B
KVA Code	N	Frame	145T
Enclosure	TENV	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	56		

Technical Specifications

Electrical Type	SQ CAGE INV RATED	Starting Method	LINE OR INVERTER
Poles	4	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	CAST IRON	Shaft Type	T
Overall Length	11.43 in	Frame Length	6.25 in
Shaft Diameter	0.88 in	Shaft Extension	2.56 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	A-104326-625	Connection Diagram	EE7300



F2 VIEW

- | DASH | FR. | B | C | BS | 2F | 2FF |
|------|------|------|-------|------|------|------|
| 525 | 143T | 5.00 | 10.43 | 2.81 | 4.00 | — |
| 625 | 145T | 6.00 | 11.43 | 3.81 | 5.00 | 4.00 |
| | | | | | | |

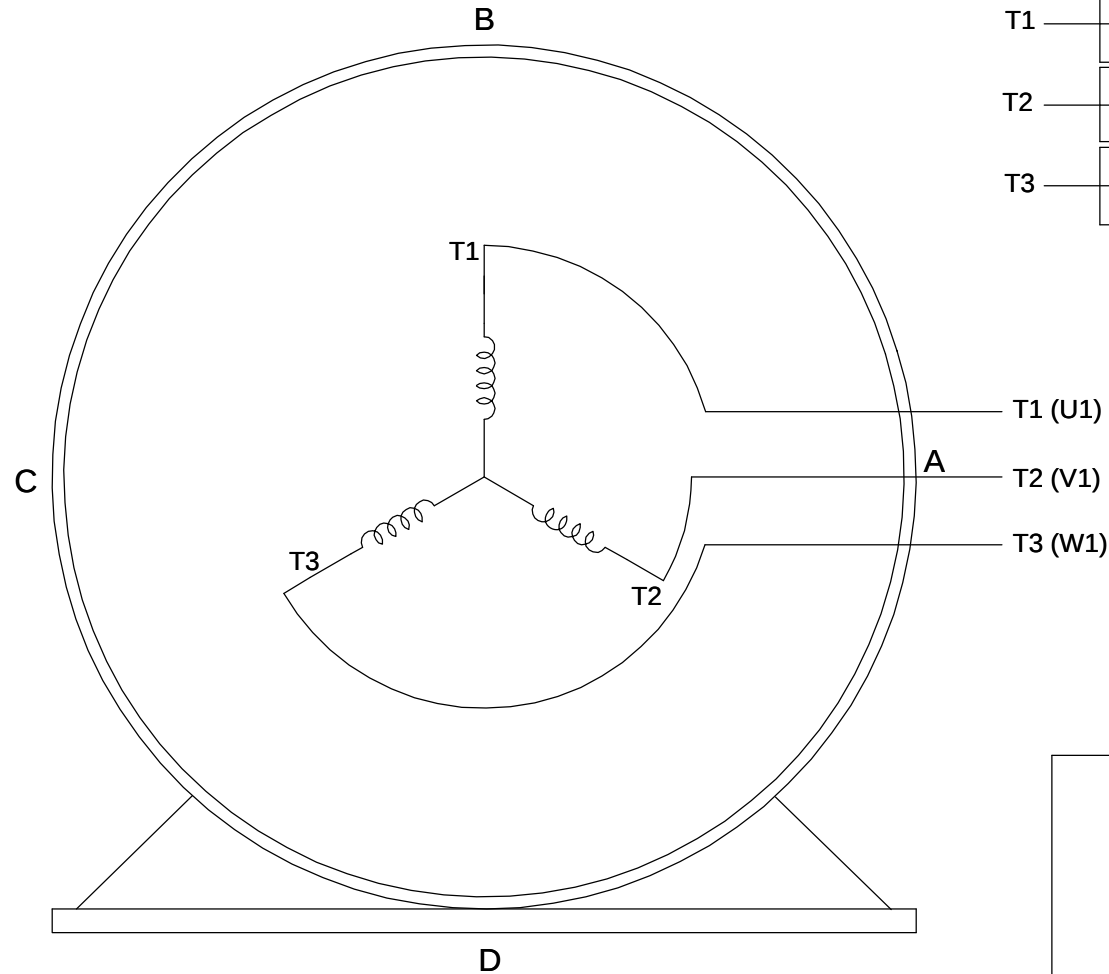
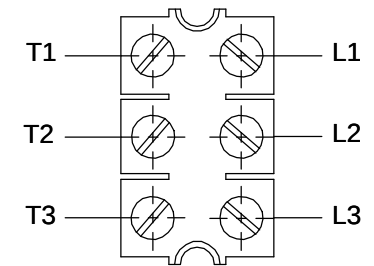
 Regal Beloit America, Inc.	DRAWN PGK 06-24-1997
	CHK ML 06-27-1997
	APPD SAT 07-10-1997
TITLE OUTLINE	SCALE 3=8
140T FR. — BB — TS — TENV — INPRO SEAL	REF
MAT'L.	FMF
FINISH	PREV

RFP	CAD FILE 104326	SIZE	DRAWING NO.	PAGE	OF	REV.
DIST WP		A	104326			8

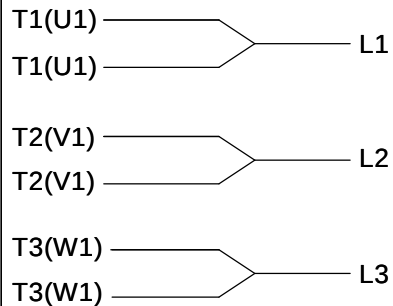
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED



IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION



VIEW OF TERMINAL END

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION



Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1
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CERTIFICATION DATA SHEET

Model#:

145HTN19058 AA

WINDING#:

ZT4166 NONE 5

CONN. DIAGRAM:

EE7300

ASSEMBLY:

F1/F2 CAPABLE

OUTLINE:

A-104326-625

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	1800	1740	145T	TENV	N	B

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

FULL LOAD EFF: 86.5	3/4 LOAD EFF: 85.5	1/2 LOAD EFF: 82.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78	3/4 LOAD PF: 70	1/2 LOAD PF: 55	84	SQ CAGE INV RATED	1.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	30	22 LB-FT 367	28 LB-FT 467	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.13 LB-FT^2	0 LB-FT^2	20 SEC.	0	69 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	DIVISION 2 T2B	FALSE	NONE	BLUE (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6205	6203	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /in HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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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			
NONE FT-LB	NONE V	NONE Hz	

Data Sheet

Date: 6/19/2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



145THTN19058

Submital

Data @ 460 V

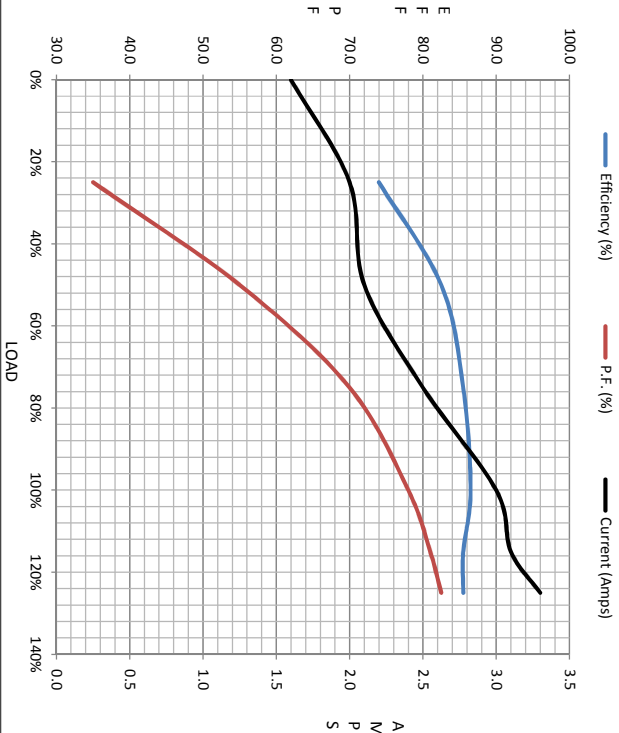
Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.60	2.00	2.10	2.50	3.0	3.1	3.3	30.0	
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	7.0	7.6	22.0	
RPM	1800	1785	1775	1760	1740	1735	1730	0	
Efficiency (%)		74.0	82.5	85.5	86.5	85.5	85.5		
P.F. (%)	9.5	35.0	55.0	70.0	78.0	81.0	82.5	61.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1050	1740	1800
Current (Amps)	30.0	22.5	16.0	3.0	1.60
Torque (ft-lb)	22.0	20.0	28.0	6.0	0.00

Information Block

HP	2.0			
Sync. RPM	1800			
Frame	145			
Enclosure	TENV			
Construction	TTN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	80 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wkt	0.13 Lb-Flt			
Ref Wdg	Z14166 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	A-104326-625			
Conn. Diag	EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.1750	3.3230	5.8790	6.1490	166.1400



Speed -Torque Curve

