

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 143THTBD5375

Catalog No: Y556A

Black Max® Inverter Duty Speed Ratio Motor, 1 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 143TCZ Frame, TENV



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord

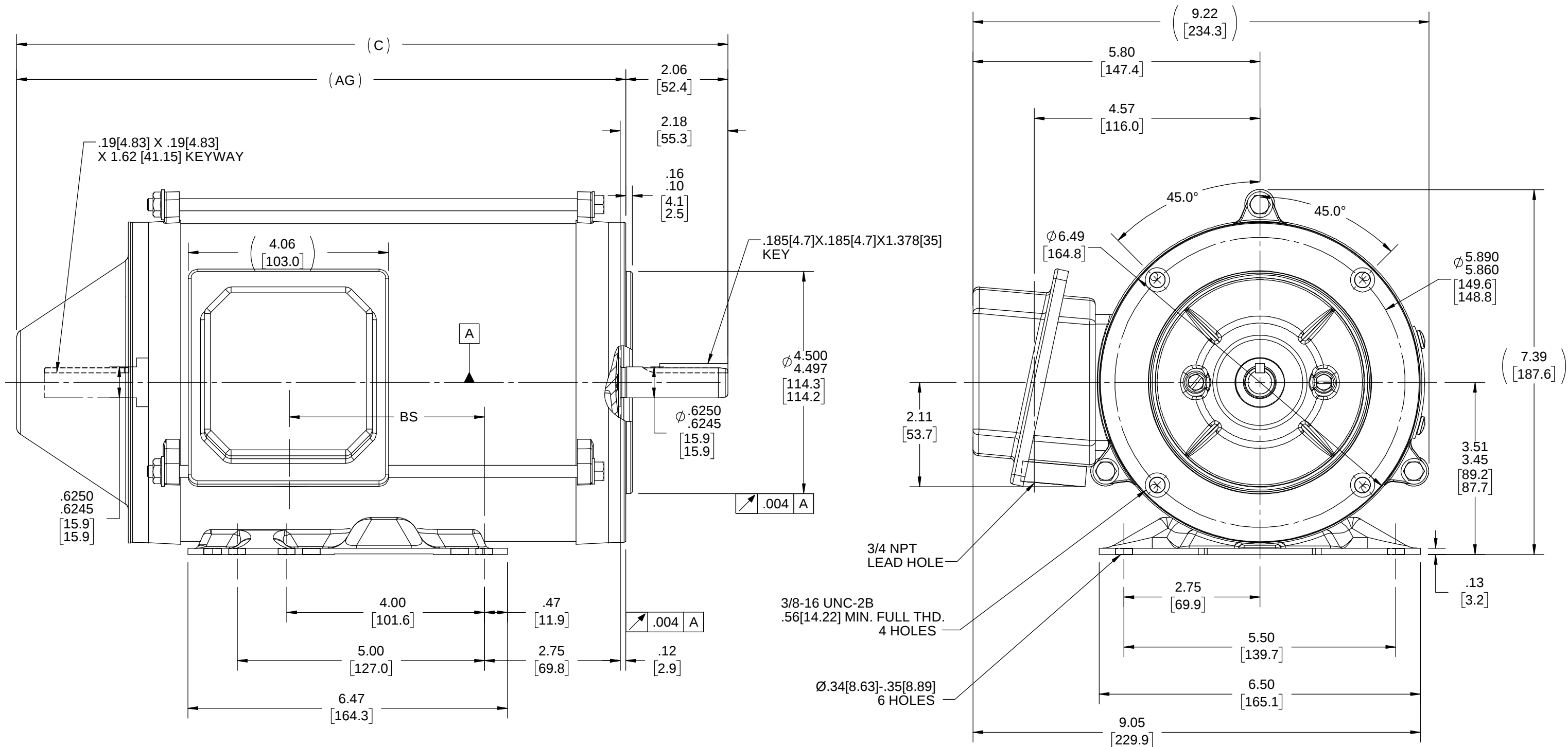
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	575 V
Current	1.2 A	Speed	1750 rpm
Service Factor	1	Phase	3
Efficiency	84 %	Power Factor	73
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	M
Frame	143TCZ	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	17.7 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Shaft Diameter	0.625 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 1000:1
Outline Drawing	SS621089-800	Connection Drawing	EE7300T

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:01/30/2023



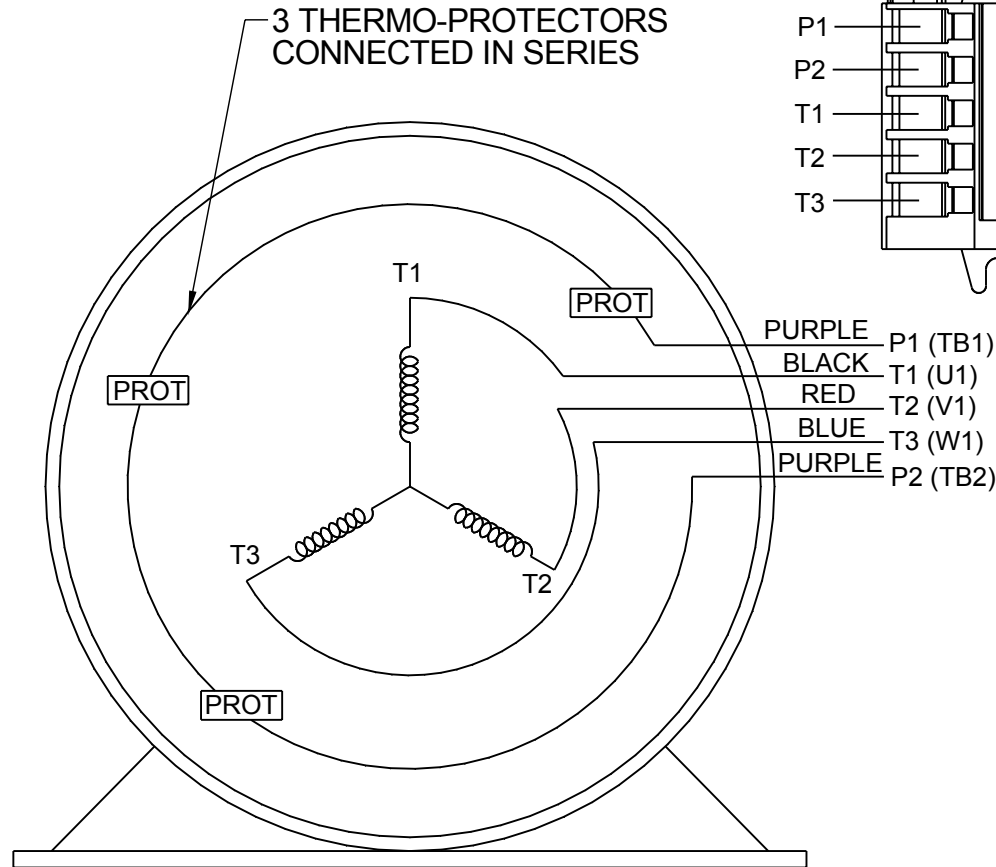
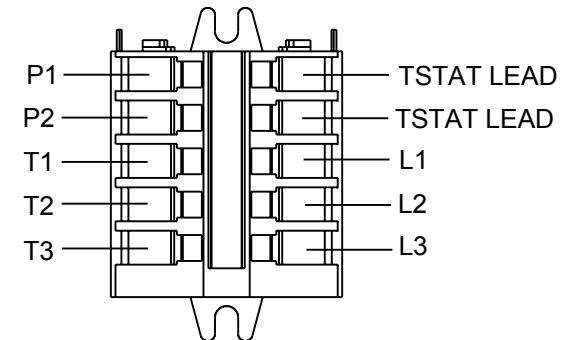
DRAWING REVISION A		REVISION BY		REV DATE/© DATE		TOLERANCES (EXCEPT AS NOTED): <table><tr><td>DEC.</td><td>INCH</td><td>mm</td><td>ANGLE</td></tr><tr><td>.X</td><td>±0.1</td><td>[±3]</td><td>±7° 30"</td></tr><tr><td>.XX</td><td>±0.03</td><td>[±0.8]</td><td></td></tr><tr><td>.XXX</td><td>±0.005</td><td>[±0.13]</td><td></td></tr><tr><td>.XXXX</td><td>±0.0005</td><td>[±0.013]</td><td></td></tr></table> REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/38] X 45 ° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200/ 5.1 INCH ✓ mm ✓ mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY				DEC.	INCH	mm	ANGLE	.X	±0.1	[±3]	±7° 30"	.XX	±0.03	[±0.8]		.XXX	±0.005	[±0.13]		.XXXX	±0.0005	[±0.013]		DRAWN BY SAS		 Regal Beloit America, Inc.			
DEC.	INCH	mm	ANGLE																																
.X	±0.1	[±3]	±7° 30"																																
.XX	±0.03	[±0.8]																																	
.XXX	±0.005	[±0.13]																																	
.XXXX	±0.0005	[±0.013]																																	
ECO ECO-0194549		APPROVED BY		DATE 11/11/2020																															
ECO DESCRIPTION NEW DRAWING RELEASE COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.						APPROVED BY CD		DESCRIPTION OUTLINE 143/145TCZ FR-TENV-RS																											
						DATE 11/11/2020																													
						REFERENCE		MATERIAL				PROCESS/FINISH																							
						THIRD ANGLE PROJECTION 		SIZE B		DRAWING NUMBER SS621089				SHEET 1 OF 1																					

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

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

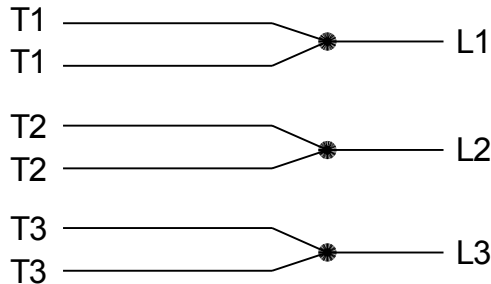
NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



A-9806 DECAL

T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

DRAWING REVISION AB	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T.VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC-60034-8		
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.		

DRAWN BY LZ	DATE 01-04-1994
APPROVED BY GK	DATE 01-20-1994
REFERENCE	THIRD ANGLE PROJECTION

 Regal Beloit America, Inc.		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300T	SHEET 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 575

CERTIFICATION DATA SHEET

CUSTOMER:**ORDER #:****CONN. DIAGRAM:****OUTLINE:****WINDING:****SPEED:**

A-EE7300T

A-SS621089-800

HAT4004

R1

3

CUSTOMER P.O. #:**REFERENCE MODEL #:** 143THTBD5375**CAT #:** Y556A**CUSTOMER PART #:****MOUNTING:** F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1	0.75	1800	1750	143TCZ	TENV	TTR	M	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	1.2	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	84.0	3/4 LD EFF	82.5	1/2 LD EFF	78.5	GTD EFF	81.5	ELECT. TYPE	SQ CAGE INV DUTY
F.L. PF	73.0	3/4 LD PF	64.0	1/2 LD PF	50.0				

F.L. TORQUE		LR AMPS @ 460 V	L.R. TORQUE		B.D. TORQUE		F.L. RISE (° C)	
3.0	LB-FT	10.8	9.6	LB-FT 320%	11.2	LB-FT 373%	65	

SOUND PRESSURE @ 3 FT.	SOUND	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APPROX.	MOTOR WGT
62 dBA	71 dBA		0.09 LB-FT ²	5 LB-FT ²	15 SEC.	2	38	LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	BOLT-ON	HORIZONTAL	NO	NONE	NO	NONE	BLACK (ENAMEL)

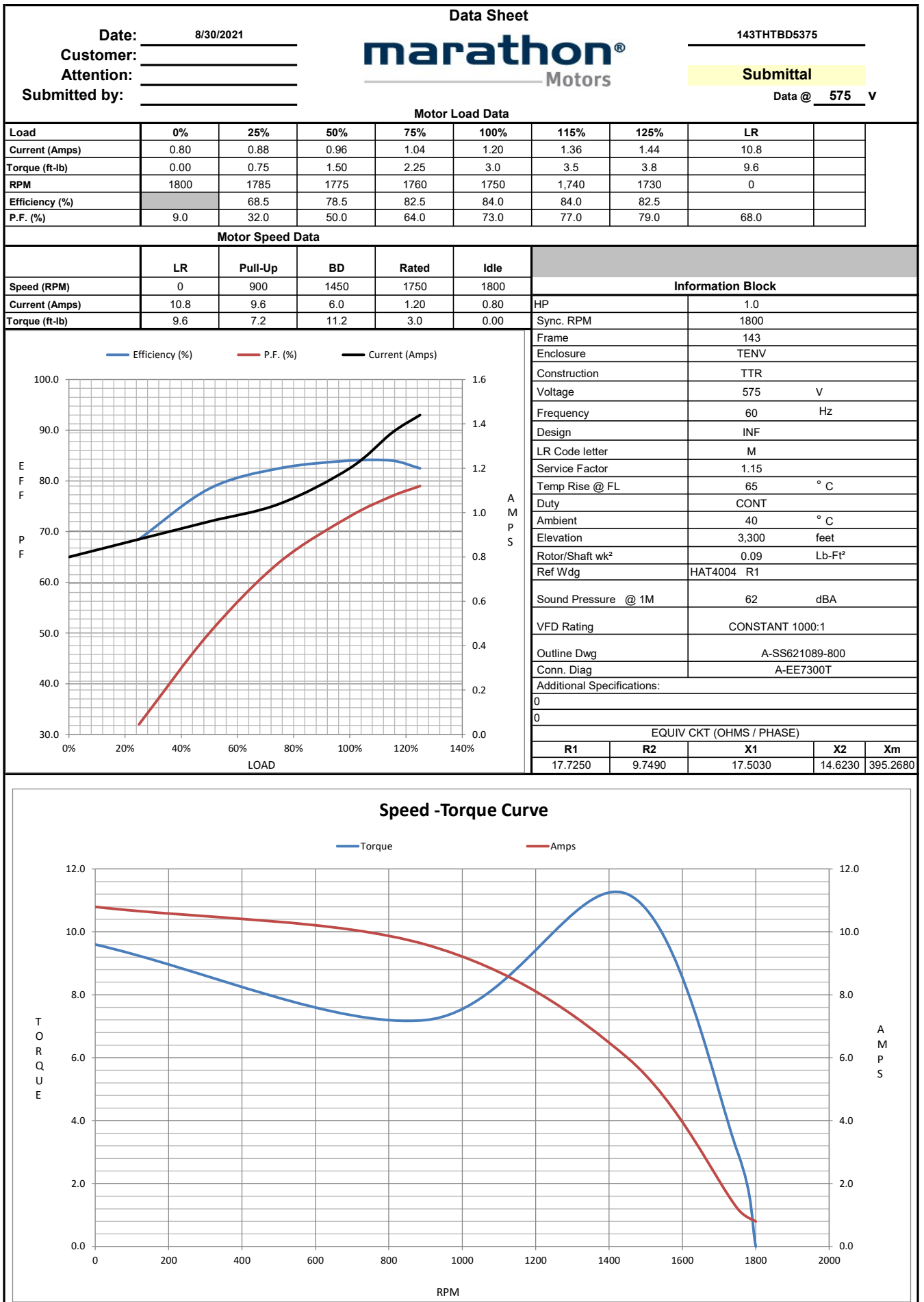
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL 6205	ODE BALL 6205	POLYREX EM	SGL SPL EXT	0.625 x 1.88 IN SEK	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE	HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE		NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
27.6953125	15.2328125	27.3484375	22.8484375	617.60625	0.150	ODE

* N O T E S *					INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED			
					ENCODER: NONE			
					NONE			
					NONE PPR			
PREPARED BY: _____ DATE: 8/30/2021					BRAKE: NONE			
					NONE			
					FT-LB: NA			
					VOLTAGE: NONE			
					UL: V - L,ME,INS.CONST UL REC,W/OVERHEAT PRT DEVICE			
FORM: 3531 REV. 4 2/27/06					HZ:			

FORM: 3531 REV_4 2/27/06



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 143THTBD5375

(Model No. may contain prefix and/or suffix characters)

Catalog No : Y556A

Rework No : N/A

Directives :

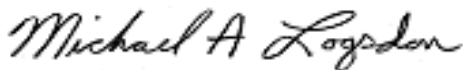
Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22