PRODUCT INFORMATION PACKET

Model No: 365THFS8046
Catalog No: Y516
Blue Max® Inverter Duty Encoder Motor, 75 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 365TC Frame, TEBC-AXIAL

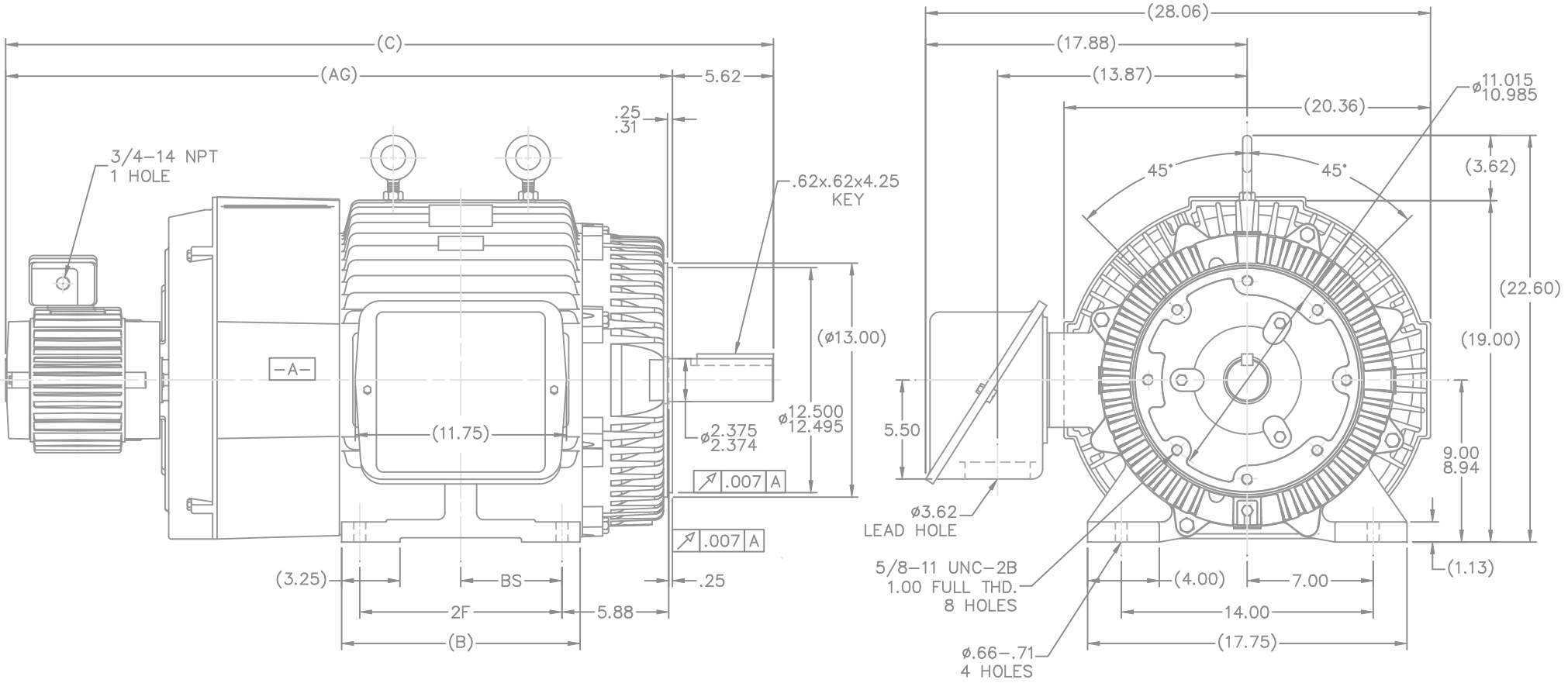
Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	56.0 kW	Voltage	230/460 V
Speed	1780 rpm	Service Factor	1.0
Frame	365TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	Thermostat	Efficiency	93 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	180.0/90.0 A	Power Factor	84
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	H
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6312
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	.075 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	43.67 in
Frame Length	14.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS518551-1450	Connection Drawing	A-EE7308T

SS518551LN



NOTES:
1. BOX CAN BE ROTATED IN 90° STEPS.
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND ROTATING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT SIDE OF MOTOR.

DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS
1350	364TC	42.67	37.04	13.25	11.25			5.62
1450	365TC	43.67	38.04	14.25	12.25			6.12

NO.	REVISION	BY & DATE	CHK
			ANG ±7'30"

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005

Lincoln MOTORS

DRAWN MSG 09-28-2004
CHK ML 09-28-2004
APPD GK 09-28-2004
SCALE 3=16
REF
FMF
PREV

TITLE OUTLINE
360TC FR. – TEBC

MAT'L.
FINISH
CAD FILE ss518551ln
RFP 09-29-2004
DIST WA

SIZE B
DRAWING NO. SS518551LN
PAGE OF
REV.

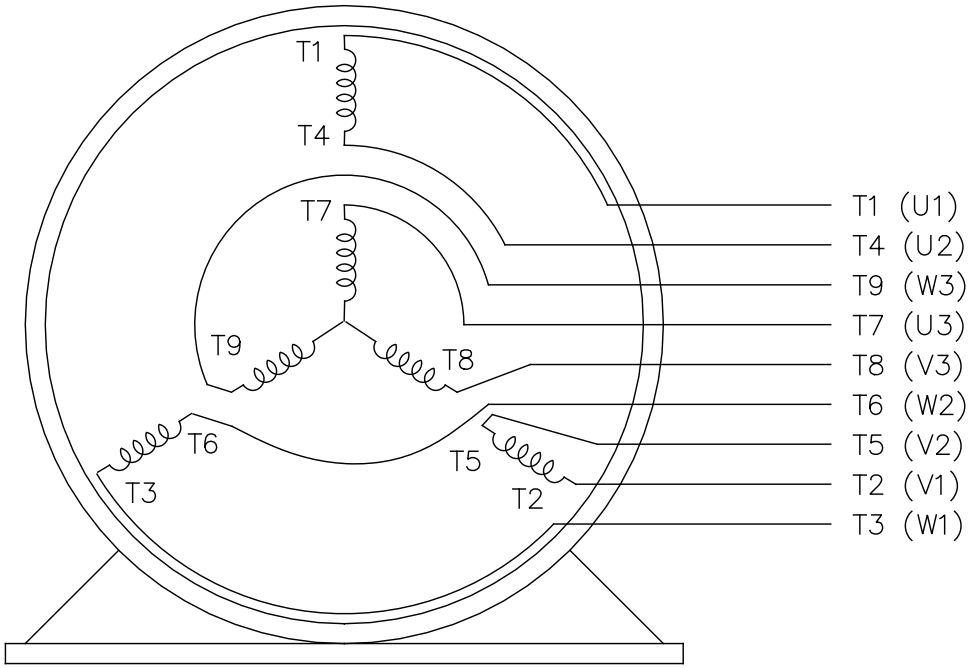
HIGH VOLTAGE

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

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

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

DRAWING REVISION	REVISION BY	DATE
ECO	APPROVED BY	DATE
ECO DESCRIPTION: NEW DRAWING		

TOLERANCES UNLESS OTHERWISE SPECIFIED

DEC.	mm	INCH	ANGLE
.X	±2.5	[±0.1]	±0.5°
.XX	±0.51	[±0.02]	
.XXX	±0.127	[±0.005]	
.XXXX	±0.0127	[±0.0005]	

REMOVE BURRS & BREAK SHARP EDGES .08/.38 [.003/.015] X 45°
CORNER FILLETS R.51 [.02]
MACHINED SURFACES INCH 125 / mm 3.2
INCH SHOWN IN [BRACKETS]

DRAWN BY:	AS
DATE:	02/20/2017
APPROVED BY:	ST
DATE:	02/20/2017
REFERENCE	EE7308
THIRD ANGLE PROJECTION	

Trans-Power

DESCRIPTION: CONNECTION DIAGRA
3 PHASE – UAL VOLTAGE

MATERIAL	PROCESS/FINISH

SIZE	DWG NO	SHEET
A	EE7308TP	1

CERTIFICATION DATA SHEET

Model#:	365THFS8046 DT	**WINDING#:**	T3654146 R1 1
CONN. DIAGRAM:	A-EE7308T	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS518551-1450		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75	56	1800	1780	365TC	TEBC-AXIAL	H	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	180/90	INVERTER ONLY	CONTINUOUS	H4	1.0	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84	3/4 LOAD PF: 80.5	1/2 LOAD PF: 72	91.7	SQ CAGE INV DUTY	59 / 29.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
221 LB-FT	1290 / 645	505 LB-FT 229	645 LB-FT 292	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	16 LB-FT^2	- LB-FT^2	- SEC.	-	1026 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.054432	0.0378	0.29862	0.41958	8.2026

RM	ZREF	XR	TD	TD0
419.58	3.78	6	0.0278	0.606

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6314	BALL 6312	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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 2000:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: PROVISIONS ONLY
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE

* NOTES *

Uncontrolled Copy

NONE	NONE		
NONE FT-LB		NONE V	NONE Hz

DATE: 06/21/2017 08:43:00 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

marathon® electric

365THFS8046

Submittal

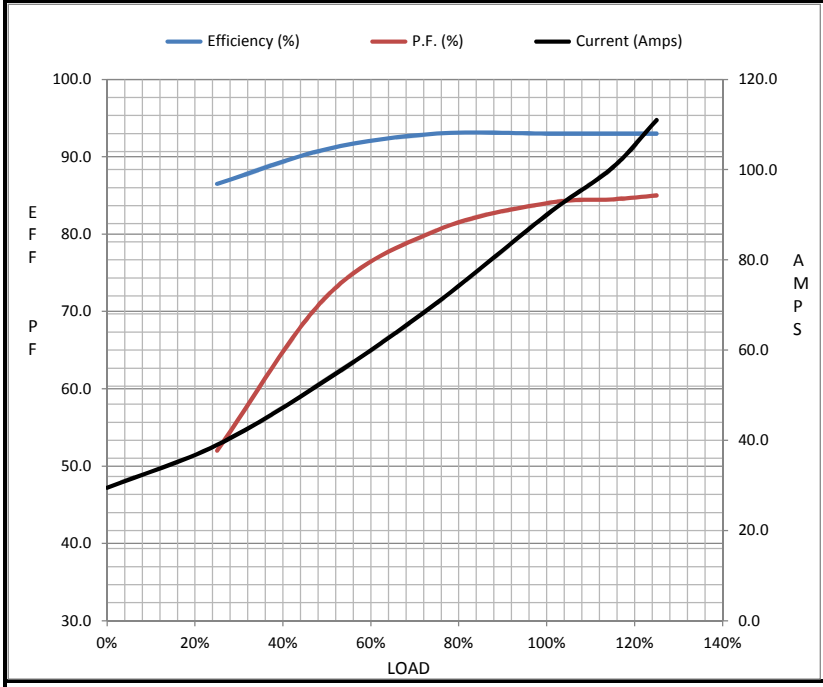
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	29.5	39.0	53.5	70.5	90.0	101	111	645	
Torque (ft-lb)	0.00	55.0	110	166	221	250	278	505	
RPM	1800	1796	1792	1786	1780	1,778	1775	0	
Efficiency (%)		86.5	91.0	93.0	93.0	93.0	93.0		
P.F. (%)	9.0	52.0	72.0	80.5	84.0	84.5	85.0	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1665	1780	1800
Current (Amps)	645	550	365	90.0	29.5
Torque (ft-lb)	505	475	645	221	0.00



Information Block

HP	75.0
Sync. RPM	1800
Frame	365
Enclosure	TEBC
Construction	TBS
Voltage	230/460 V
Frequency	60 Hz
Design	A
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	65 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	16.0 Lb-Ft²
Ref Wdg	T3654146 R1
Sound Pressure @ 1M	85 dBA
VFD Rating	CONSTANT 2000:1
Outline Dwg	B-SS518551-1450
Conn. Diag	A-EE7308T

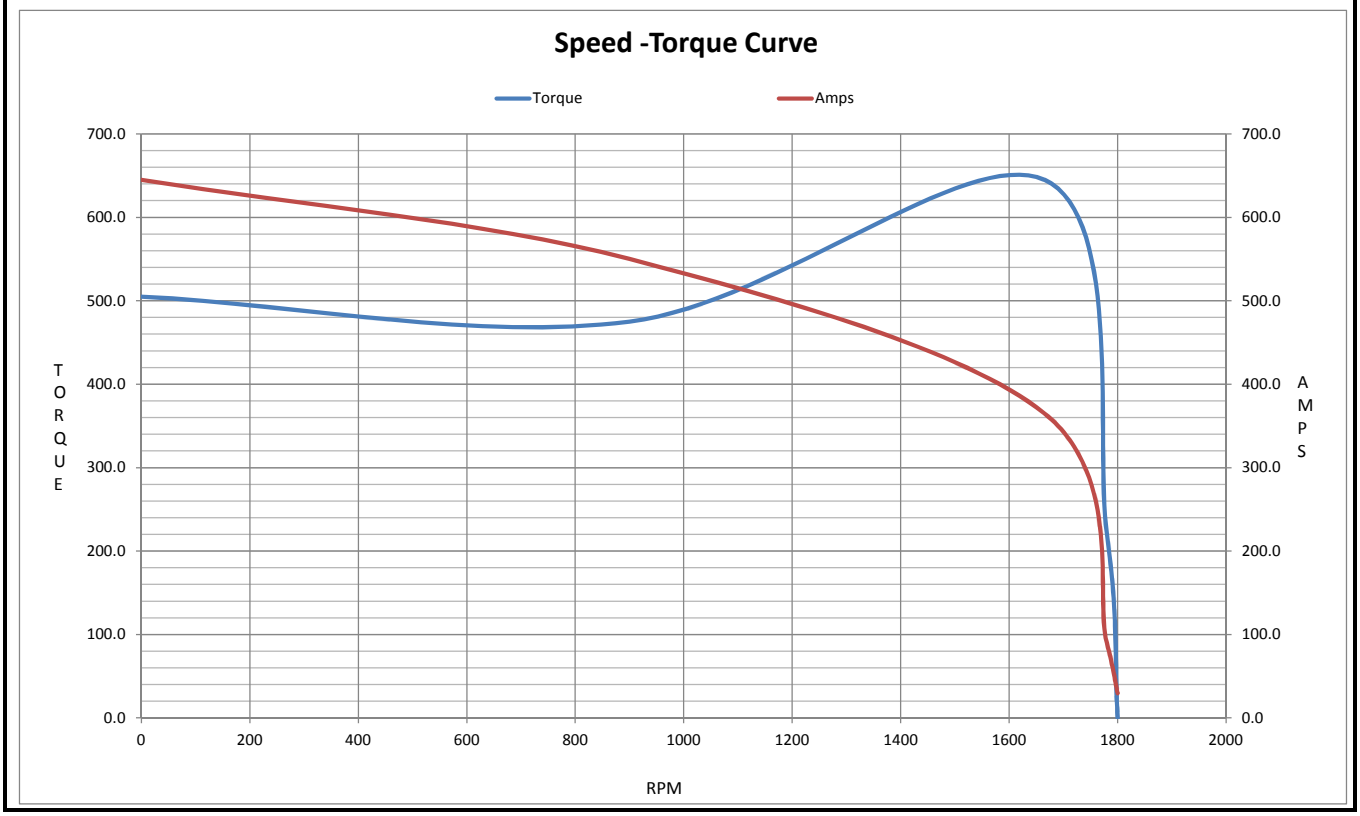
Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0540	0.0380	0.2990	0.4200	8.2030



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 : 365THFS8046

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

Catalog No : Y516

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