

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326THFS8028

Catalog No: Y572

Blue Max® Inverter Duty Encoder Motor, 50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 326T Frame, TEFC



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RegalRexnord

Nameplate Specifications

Phase	3	Output HP	50 Hp
Output KW	37.0 kW	Voltage	230/460 V
Speed	1780 rpm	Service Factor	1.0
Frame	326T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Efficiency	93 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	123.0/61.5 A	Power Factor	81.5
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
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	.095 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	33.94 in
Frame Length	14.50 in	Shaft Diameter	2.125 in
Shaft Extension	5.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS301093-1450	Connection Drawing	A-EE7308T

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

DASH	FRAME	B	C	2F	BS	
1150	324T	13.00	32.35	10.50	5.25	
1300	326T	14.50	33.85	12.00	6.00	

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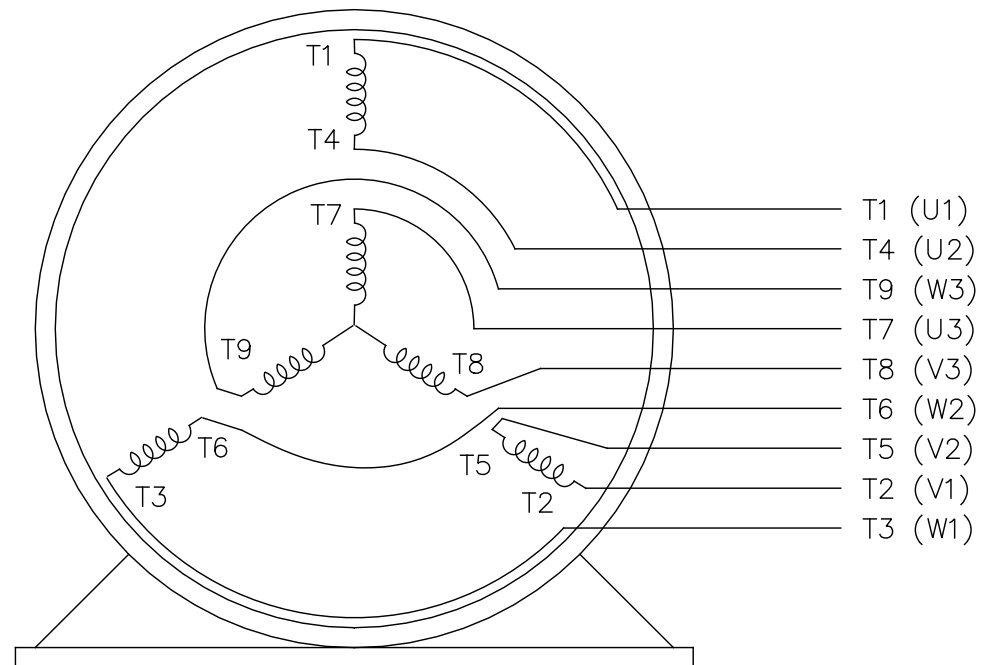
HIGH VOLTAGE

(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	_____●_____	L1
(U3) T7	_____●_____	
(V1) T2	_____●_____	L2
(V3) T8	_____●_____	
(W1) T3	_____●_____	L3
(W3) T9	_____●_____	
(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	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN BY:			
ECO	APPROVED BY	DATE	DEC. mm INCH ANGLE	AS			
ECO DESCRIPTION			.X ±2.5 ±0.11 ±0.5°	DATE:	DESCRIPTION		
NEW DRAWING			.XX ±0.51 ±0.021	02/20/2017			
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			.XXXX ±0.0127 ±0.00051	ST			
			REMOVE BURRS & BREAK SHARP	DATE:	3 PHASE - UAL VOLTAGE		
			EDGES .08/.38 [.003/.015]X 45°	02/20/2017			
			CORNER FILLETS R.51 [.02]	REFERENCE	MATERIAL		PROCESS/FINISH
			MACHINED SURFACES	EE7308			
			INCH 125 mm 3.2	THIRD ANGLE	SIZE DWG NO		SHEET
			INCH SHOWN IN [BRACKETS]	PROJECTION	A EE7308TP		1

CERTIFICATION DATA SHEET

Model#: 326THFS8028 EU

WINDING#: K3264186 R1 1

CONN. DIAGRAM: A-EE7308T

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS301093-1450

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37.0	1800	1780	326T	TEFC	G	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	123/61.5	INVERTER ONLY	CONTINUOUS	H4	1.0	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81.5	3/4 LOAD PF: 76.5	1/2 LOAD PF: 66.5	91.7	SQ CAGE INV DUTY	52 / 26

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	750 / 375	300 LB-FT 202	375 LB-FT 252	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	9.7 LB-FT^2	- LB-FT^2	- SEC.	-	765 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.06804	0.053865	0.43092	0.57834	10.16631

RM	ZREF	XR	TD	TD0
302.778	5.67	7.2	0.03	0.54

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6312	6311	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

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NONE	NONE	
- FT-LB	NONE V	NONE Hz

DATE: 06/21/2017 05:54:13 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



326THFS8028

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	26.0	29.5	38.0	49.0	61.5	68.5	75.5	375	
Torque (ft-lb)	0.00	36.5	73.5	111	148	167	185	300	
RPM	1800	1795	1790	1785	1780	1,778	1774	0	
Efficiency (%)		86.5	91.7	93.0	93.0	92.7	92.4		
P.F. (%)	6.0	46.0	66.5	76.5	81.5	82.3	83.0	32.0	

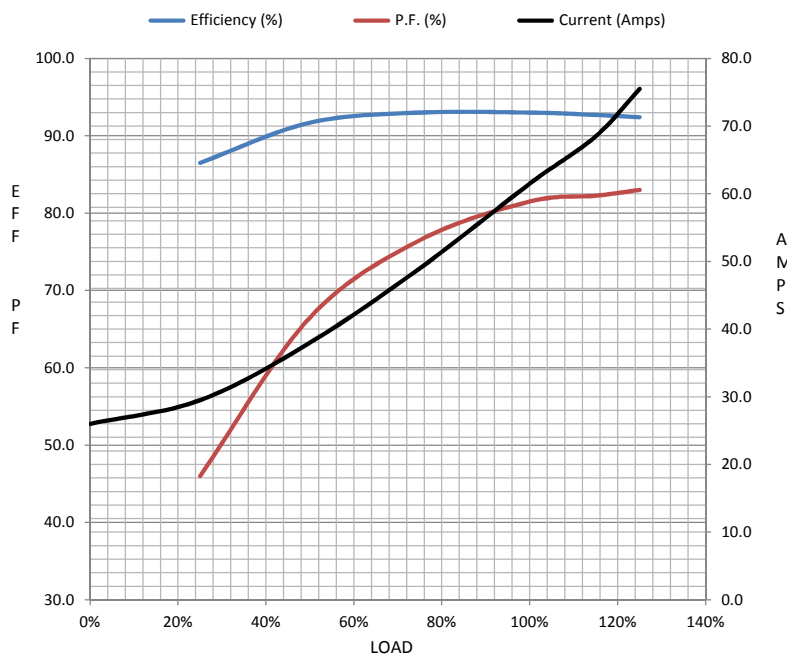
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1780	1800
Current (Amps)	375	325	220	61.5	26.0
Torque (ft-lb)	300	250	375	148	0.00

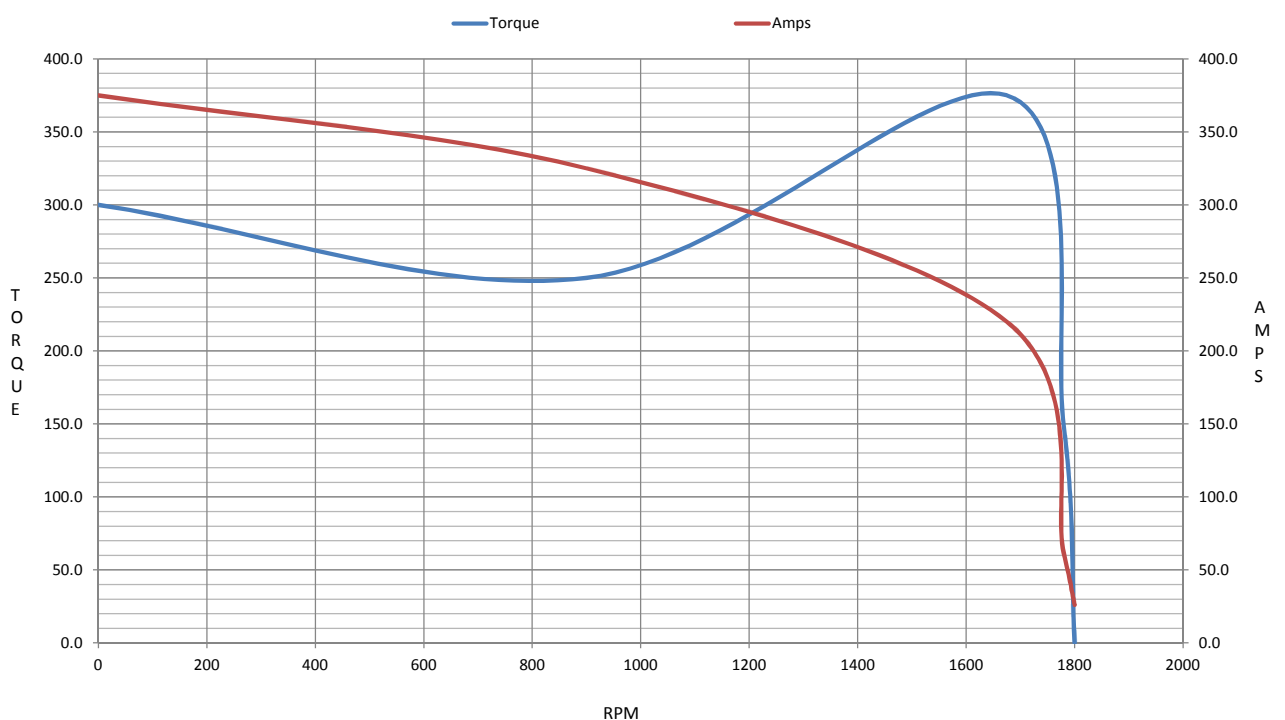
MOTOR IS TOO HOT

Information Block

HP	#VALUE!			
Sync. RPM	NA			
Frame	326			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	HOT			
Temp Rise @ FL	65 ° C			
Duty	SPL			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	9.7 Lb-Ft ²			
Ref Wdg	K3264186 R1			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg	B-SS301093-1450			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0680	0.0540	0.4310	0.5780	10.1660



Speed - Torque Curve



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 : 326THFS8028

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

Catalog No : Y572

Rework No : N/A

Directives :

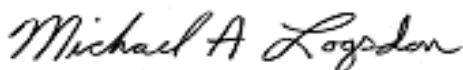
Low Voltage Directive 2014/35/EU

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