

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326THFS9026
Catalog No: W580
50 HP, Severe Duty Motors, 3 phase, 1800 RPM, 460 V, 326T Frame, TEFC
Severe Duty Motors



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RegalRexnord

Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	460 V
Current	60.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	326T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.112 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	30.37 in
Frame Length	13.00 in	Shaft Diameter	2.125 in
Shaft Extension	5.5 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300	Outline Drawing	B-SS300575-1300

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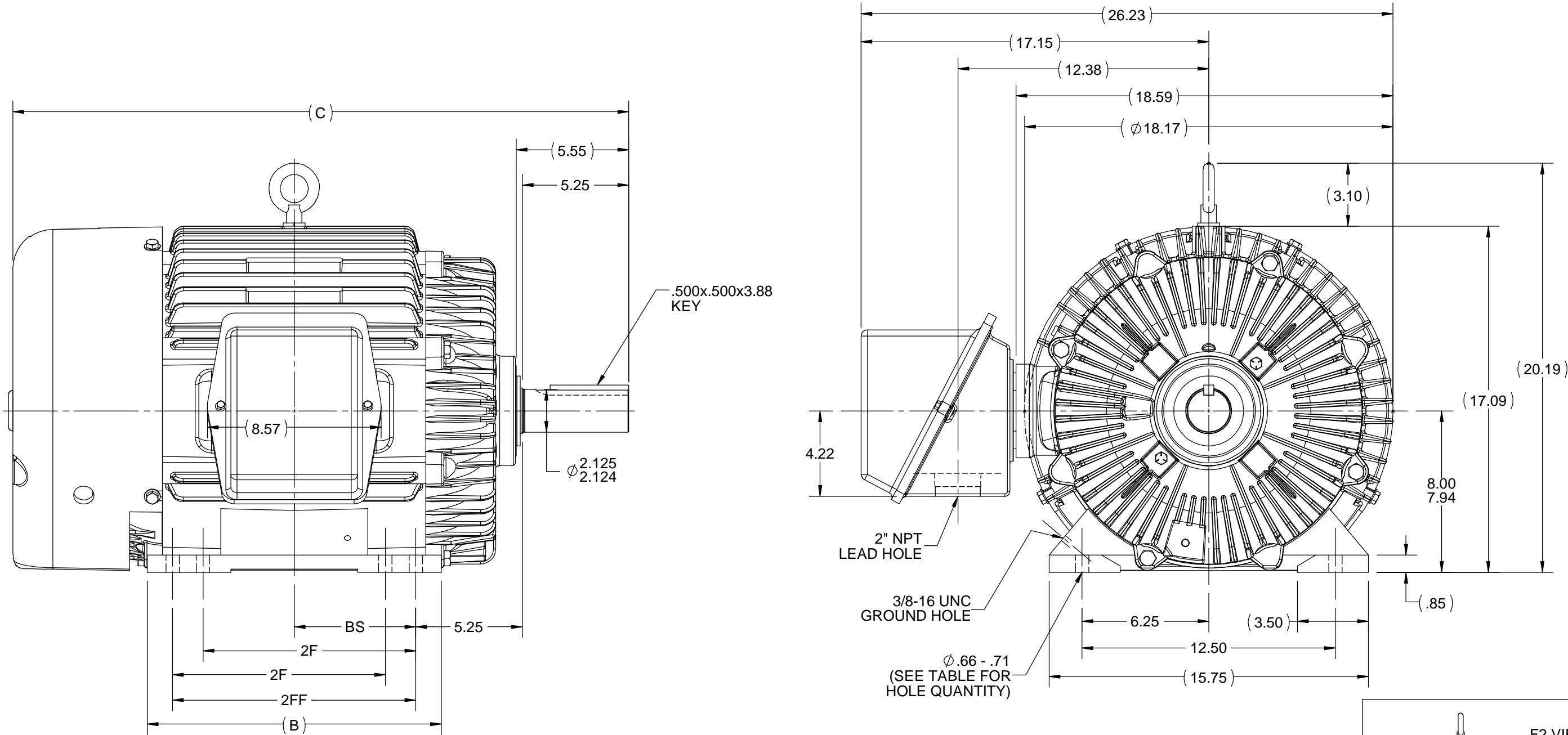
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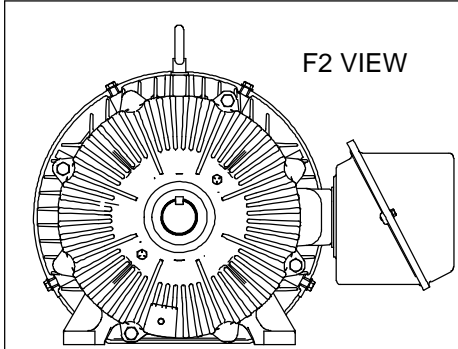
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- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	B	BS	2F	2FF	--	MTG HOLES
1150	324T	28.87	13.00	5.25	--	10.50		4
1300	324/6T	30.37	14.50	6.00	10.50	12.00		8
1450	326T	31.87	15.00	6.75	12.00	13.50		8

DRAWING REVISION D	REVISION BY MSG	DATE 12-05-2018	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY MH	 Regal ™ Regal Beloit America, Inc.				
ECO ECO-0157547	APPROVED BY MSG	DATE 12-05-2018	DEC.	INCH	mm			ANGLE	DATE 01-23-1998	
ECO DESCRIPTION REVISED 2FF DIM FOR -1450			.X	±0.1	[±2.5]	±7° 30"	APPROVED BY DD	DESCRIPTION OUTLINE		
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			.XXX	±0.005	[±0.127]		REFERENCE	MATERIAL	PROCESS/FINISH	
			.XXXX	±0.0005	[±0.0127]		THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS300575	SHEET 1 OF 1
			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200 INCH/mm 5.1							



4

3

2

1

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#: 326THFS9026 CG
CONN. DIAGRAM: A-EE7300
OUTLINE: B-SS300575-1300

WINDING#: K3264168 NONE 2
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37	1800	1775	326T	TEFC	F	B

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

FULL LOAD EFF: 94.5	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82	3/4 LOAD PF: 79	1/2 LOAD PF: 71	94.1	SQ CAGE INV RATED	24

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	335	250 LB-FT 169	340 LB-FT 230	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	9.7 LB-FT^2	325 LB-FT^2	25 SEC.	2	775 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 (EPOXY)

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			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 2:1
 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

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DATE: 06/21/2017 05:54:59 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



326THFS9026

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	24.0	27.5	36.0	47.0	60.0	68.5	75.0	335	
Torque (ft-lb)	0.00	36.6	73.5	111	148	170	185	250	
RPM	1800	1795	1788	1782	1775	1,772	1770	0	
Efficiency (%)		91.7	94.5	94.5	94.5	94.1	93.6		
P.F. (%)	4.0	51.0	71.0	79.0	82.0	82.5	83.0	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	900	1675	1775	1800																													
Current (Amps)	335	300	190	60.0	24.0																													
Torque (ft-lb)	250	230	340	148	0.00																													
<div><div><div>— Efficiency (%)</div><div>— P.F. (%)</div><div>— Current (Amps)</div></div><table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>92</td><td>50</td><td>51</td></tr><tr><td>50</td><td>95</td><td>75</td><td>65</td></tr><tr><td>75</td><td>94</td><td>80</td><td>78</td></tr><tr><td>100</td><td>94</td><td>82</td><td>88</td></tr><tr><td>125</td><td>93</td><td>83</td><td>95</td></tr></tbody></table></div>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	92	50	51	50	95	75	65	75	94	80	78	100	94	82	88	125	93	83	95	Information Block				
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	92	50	51																									
						50	95	75	65																									
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						HP		50.0																										
						Sync. RPM		1800																										
						Frame		326																										
						Enclosure		TEFC																										
						Construction		TFN																										
						Voltage		460 V																										
						Frequency		60 Hz																										
						Design		B																										
						LR Code letter		F																										
						Service Factor		1.15																										
						Temp Rise @ FL		75 ° C																										
						Duty		CONT																										
						Ambient		40 ° C																										
						Elevation		1,000 feet																										
						Rotor/Shaft wk²		9.7 Lb-Ft²																										
						Ref Wdg		K3264168 NONE																										
Sound Pressure @ 1M		65 dBA																																
VFD Rating		CONSTANT 2:1																																
Outline Dwg		B-SS300575-1300																																
Conn. Diag		A-EE7300																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.0680	0.0620	0.4830	0.6480	11.0680																														

Speed -Torque Curve

