

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 326TSTFS6001

Catalog No: E225

50 HP General Purpose Motor, 3 phase, 3600 RPM, 230/460 V, 326TS Frame, TEFC
General Purpose Motors



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RegalRexnord

Nameplate Specifications

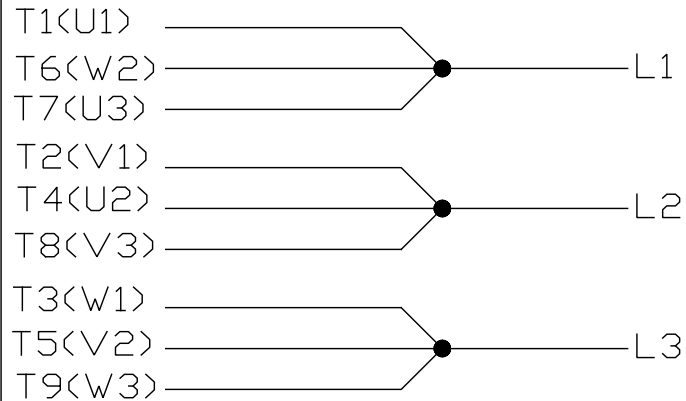
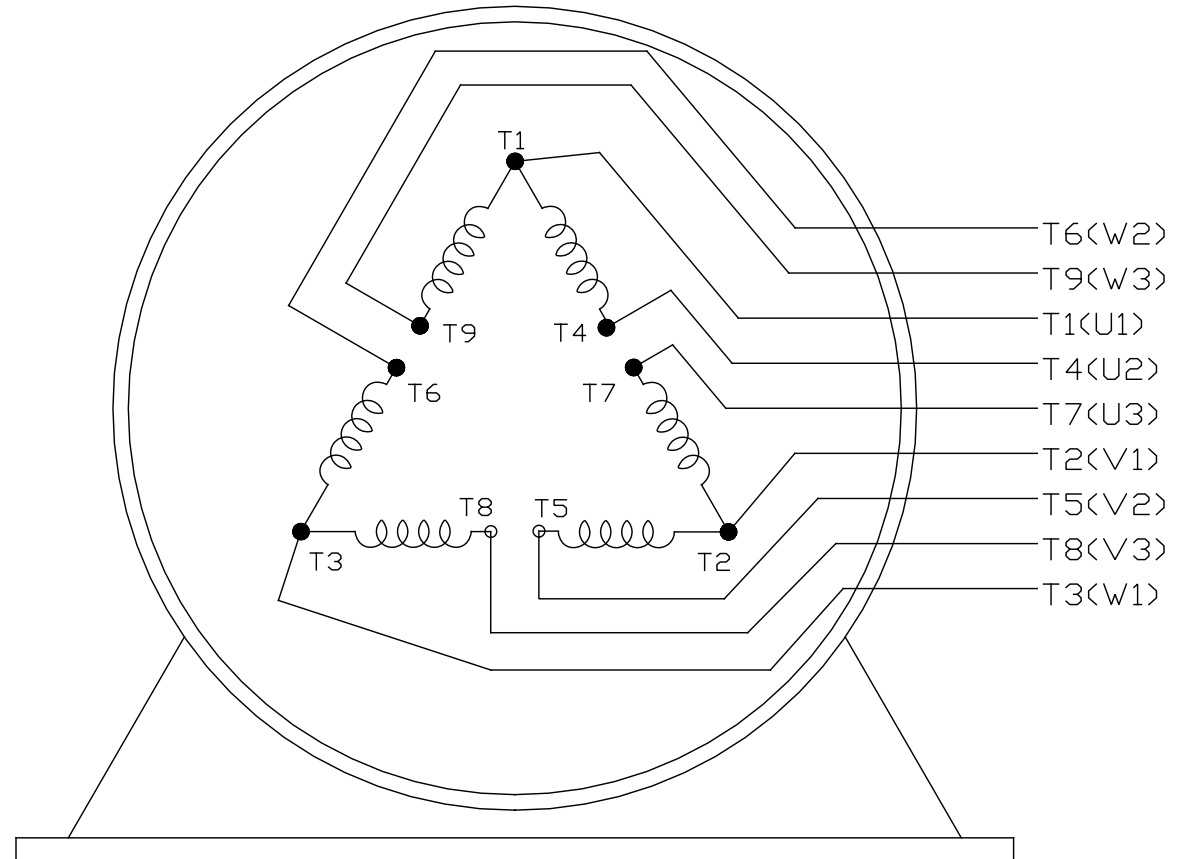
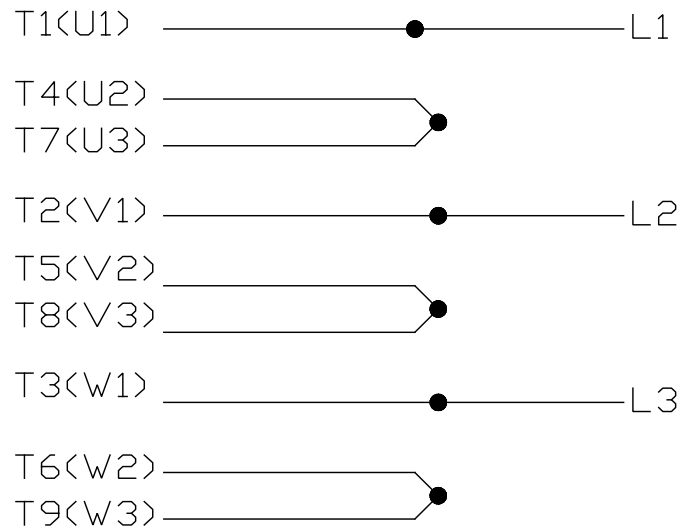
Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	116.0/58.0 A	Speed	3545 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	326TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	.102 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	29.10 in
Frame Length	13.00 in	Shaft Diameter	1.875 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS28290-1300	Connection Drawing	A-EE7308K

LOW VOLTAGE

EE7308K

HIGH VOLTAGE

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997		
NO.	REVISION	BY & DATE	CHK	ANG	± 7'30"		CHK	ML	06-05-1997
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.	INCHES				
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	± .1				
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	± .02	TITLE CONNECTION DIAGRAM DELTA CON. - 3Ø - 9 LEADS			
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	± .005				
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	± .0005				
						MAT'L.			
						FINISH			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT						RFP	CAD FILE EE7308K		
						DIST	SIZE A	DRAWING NO. EE7308K	PAGE OF REV. E

CERTIFICATION DATA SHEET

Model#: 326TSTFS6001 BU
 CONN. DIAGRAM: A-EE7308K
 OUTLINE: B-SS28290-1300

WINDING#: 326269 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50	37	3600	3545	326TS	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	116/58	ACROSS THE LINE	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 93.6	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: 84	1/2 LOAD PF: 76.5	93	SQ CAGE IND RUN	35 / 17.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	660 / 330	112 LB-FT 151	190 LB-FT 257	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	5.8 LB-FT^2	27 LB-FT^2	15 SEC.	2	725 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	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	TS	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

* N O T E S *	INVERTER TORQUE: NONE					
	INV. HP SPEED RANGE: NONE					
	ENCODER: NONE					
	NONE NONE					
	NONE NONE PPR					
	BRAKE: NONE NONE					
	NONE P/N NONE					
	NONE NONE					
	- FT-LB NONE V NONE Hz					

DATE: 06/21/2017 06:33:47 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



326TSTFS6001

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	17.5	22.5	32.5	44.5	58.0	66.0	72.0	330	
Torque (ft-lb)	0.00	18.0	37.0	55.0	74.0	85.0	93.0	112	
RPM	3600	3590	3575	3560	3545	3,535	3530	0	
Efficiency (%)		90.2	93.0	93.6	93.6	93.0	92.4		
P.F. (%)	7.8	57.0	76.5	84.0	86.0	86.5	87.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																												
Speed (RPM)	0	1800	3315	3545	3600	HP	50.0																											
Current (Amps)	330	297	207	58.0	17.5	Sync. RPM	3600																											
Torque (ft-lb)	112	101	190	74.0	0.00	Frame	326																											
— Efficiency (%) — P.F. (%) — Current (Amps) <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>90.0</td><td>57.0</td><td>17.5</td></tr><tr><td>50</td><td>93.0</td><td>78.0</td><td>29.7</td></tr><tr><td>75</td><td>94.0</td><td>85.0</td><td>44.5</td></tr><tr><td>100</td><td>94.0</td><td>87.0</td><td>58.0</td></tr><tr><td>125</td><td>93.0</td><td>88.0</td><td>70.0</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	25	90.0	57.0	17.5	50	93.0	78.0	29.7	75	94.0	85.0	44.5	100	94.0	87.0	58.0	125	93.0	88.0	70.0	Enclosure	TEFC			
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						Construction	TFN																											
						Voltage	230/460 V																											
						Frequency	60 Hz																											
						Design	B																											
						LR Code letter	G																											
						Service Factor	1.15																											
						Temp Rise @ FL	75 ° C																											
						Duty	CONT																											
						Ambient	40 ° C																											
						Elevation	1,000 feet																											
Rotor/Shaft wk²	5.8 Lb-Ft²																																	
Ref Wdg	326269 NONE																																	
Sound Pressure @ 1M	72 dBA																																	
VFD Rating	NONE																																	
Outline Dwg	B-SS28290-1300																																	
Conn. Diag	A-EE7308K																																	
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1		R2		X1		X2		Xm																										
0.0690		0.0640		0.5120		0.4310		18.2900																										

Speed -Torque Curve

