

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 324TSTGS6501
Catalog No: E566
40,3600,EPFC,324TS,3/60/230/460
Explosion Proof



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REGAL[®]



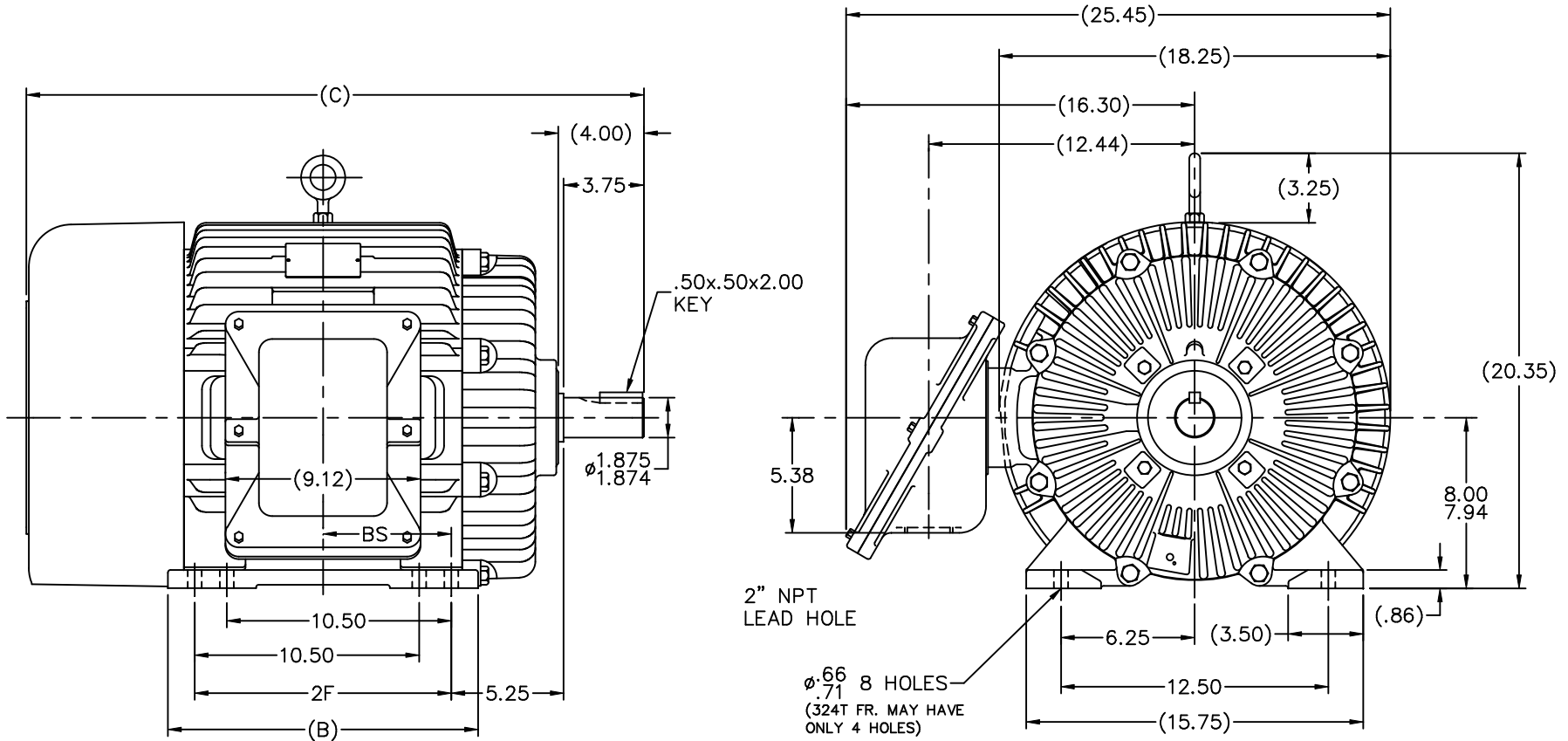
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	94.0/47.0 A	Speed	3545 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	324TS
Enclosure	Explosion Proof Fan cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6311	UL	No
CSA	N	CE	N
IP Code	54		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	TS
Overall Length	28.87 in	Frame Length	13.00 in
Shaft Diameter	1.875 in	Shaft Extension	4 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	B-SS28118-1300	Connection Diagram	A-EE7308AD

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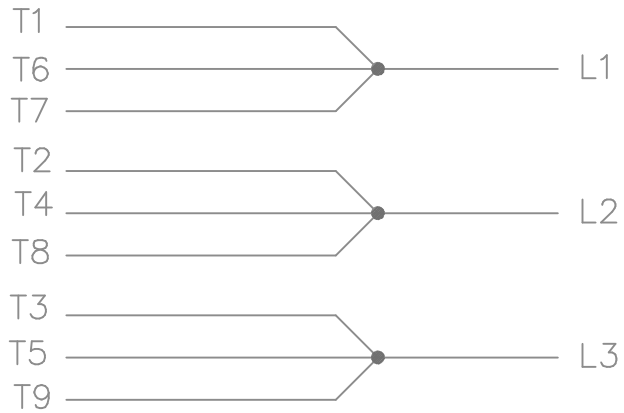
NOTES:

1. BOX CAN BE ROTATED IN 90° STEPS.
2. 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.

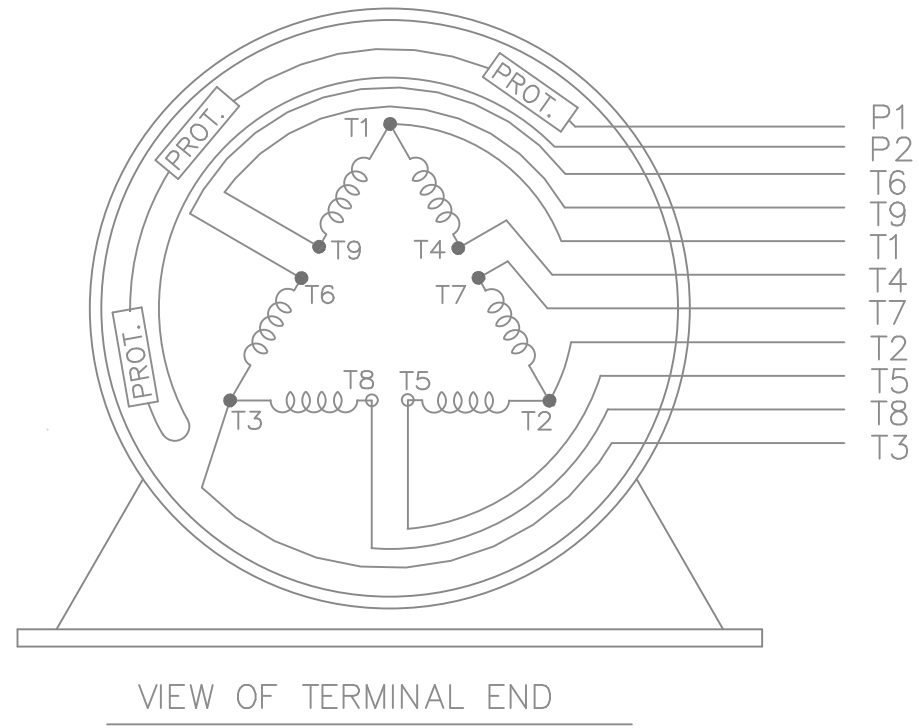
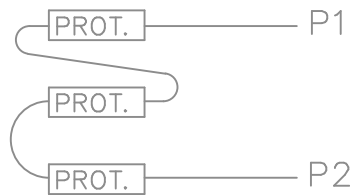
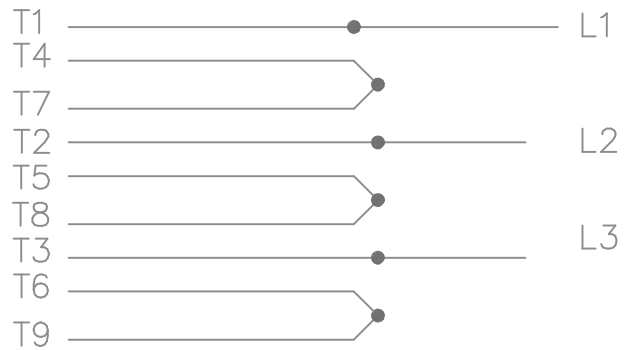
DASH	FRAME	B	C	2F	BS
1150	324TS	13.00	27.37	10.50	5.25
1300	324TS	14.50	28.87	12.00	6.00
1300	326TS	14.50	28.87	12.00	6.00
1450	326TS	15.00	30.37	12.00	6.75

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN MRB 09-05-1995	
		DEC.	INCHES	CHK	DA	09-06-1995	
7	REDRAWN IN AUTOCAD	TAT	07-06-2004	ML	X	APPD GK 09-06-1995	
6	ADDED DASH 1300 324TS FR.	MU25460	MJD	06-07-1999	.XX	SCALE 1=5	
5	ADDED DUAL DRILLING	CN 26835	DRS	04-29-1999	.XXX	REF	
4	REDRAWN ON CADD	MRB	09-06-1995		.XXXX	MATL	
NO.	REVISION	BY & DATE	CHK	ANG	±7°30"	PREV	
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						DIST	LB
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						B	SS28118 7

LOW VOLTAGE



HIGH VOLTAGE



WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN MJD 12-19-1997				
				DEC.	INCHES		CHK	ML	01-07-1998		
				.X	±.1	TITLE CONNECTION DIAGRAM 3φ - WITH PROTECTORS	SCALE				
				.XX	±.02		REF				
				.XXX	±.005		FMF				
8	HIGH VOLT. SCHEMATIC WAS L1, L3 & L3	CN 32724	DRS 06-12-2004	ML	.XXX	±.005	PREV				
7	REDRAWN ON CADD		MJD 01-07-1998		.XXXX	±.0005	MAT'L.				
NO.	REVISION		BY & DATE	CHK	ANG	±7'30"	FINISH				
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				DIST	WA-LB		A	EE7308AD			8

CERTIFICATION DATA SHEET

Model#: 324TSTGS6501 BS **WINDING#:** 324248 NONE 6
CONN. DIAGRAM: A-EE7308AD **ASSEMBLY:** F1 ONLY
OUTLINE: B-SS28118-1300

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	3600	3545&2955	324TS	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	94/47&83/41.5	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 93.6&94.1	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 85&85.5	3/4 LOAD PF: 83	1/2 LOAD PF: 76	93	SQ CAGE INV RATED	29.4 / 14.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.5 LB-FT	550 / 275	91.5 LB-FT 154	157 LB-FT 264	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	4.9 LB-FT^2	25 LB-FT^2	15 SEC.	2	625 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	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6311						

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 10:1
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

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Data Sheet

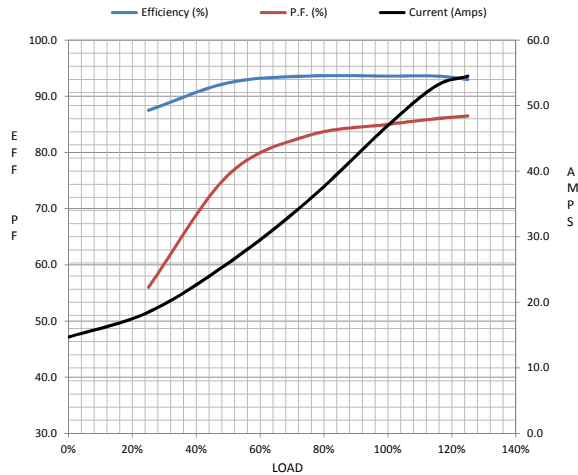
Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



324TSGS6501
Submittal
 Data @ 460 V

Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.7	18.5	26.0	35.5	47.0	53.0	54.5	275	
Torque (ft-lb)	0.00	14.5	29.5	44.0	59.5	68.5	74.5	91.5	
RPM	3600	3590	3575	3560	3545	3540	3530	0	
Efficiency (%)		87.5	92.4	93.6	93.6	93.6	93.0		
P.F. (%)	9.3	56.0	76.0	83.0	85.0	86.0	86.5	29.0	

Motor Speed Data						Information Block	
	LR	Pull-Up	BD	Rated	Idle		
Speed (RPM)	0	1800	3300	3545	3600		
Current (Amps)	275	248	172	47.0	14.7		
Torque (ft-lb)	91.5	82.0	157	59.5	0.00		



HP	40.0			
Sync. RPM	3600			
Frame	324			
Enclosure	TEFC			
Construction	TFN			
Voltage	30/460#190/38V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	4.9 Lb-FT²			
Ref Wdg	324248 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS281 18-1300			
Conn. Diag	A-EE7308AD			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0750	0.0720	0.6480	0.4750	18.6730

