

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 364TSTGS6506
Catalog No: E572
60,3600,EPFC,364TS,3/60/230/460
Explosion Proof



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REGAL[®]



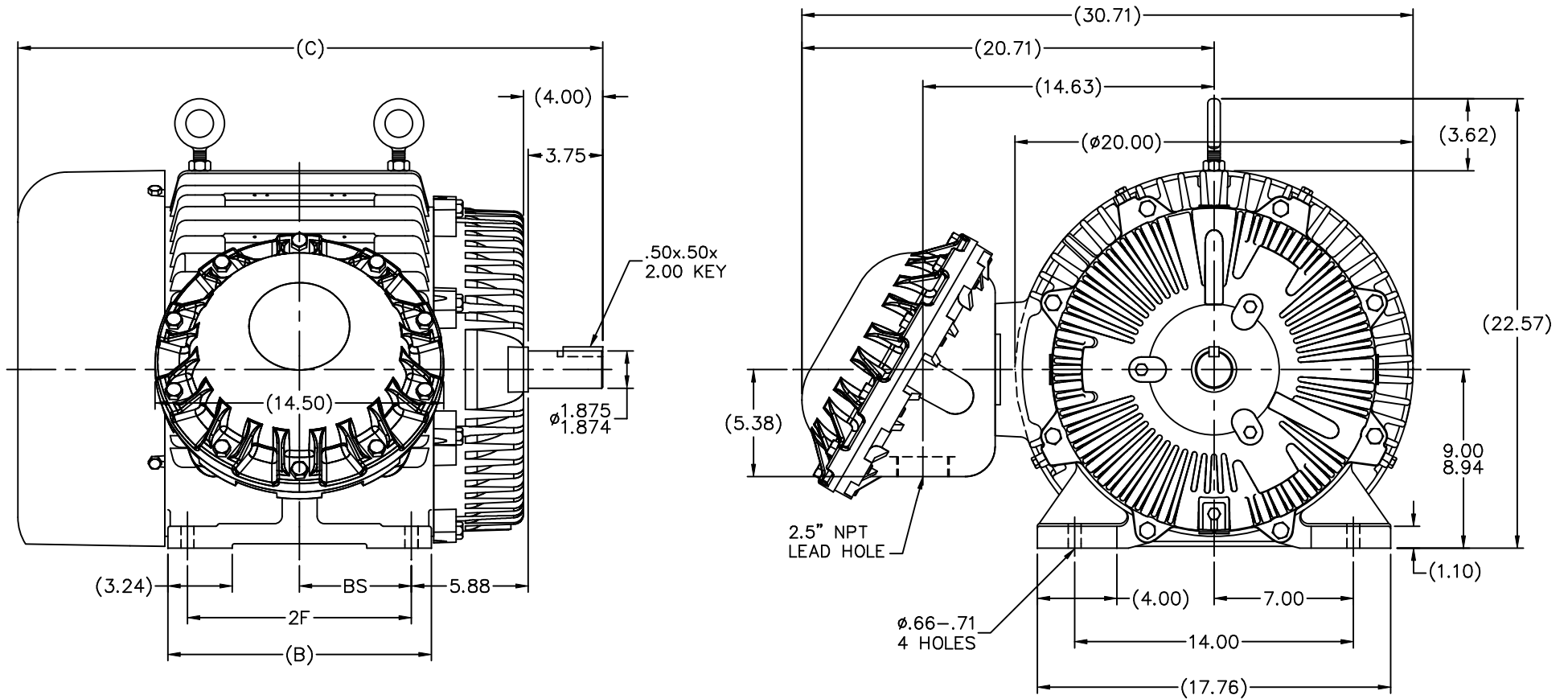
Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	134.0/67.0 A	Speed	3555 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	364TS
Enclosure	Explosion Proof Fan cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6312	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	29.38 in	Frame Length	13.50 in
Shaft Diameter	1.875 in	Shaft Extension	4 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	B-SS518623-1350	Connection Diagram	A-EE7308AD

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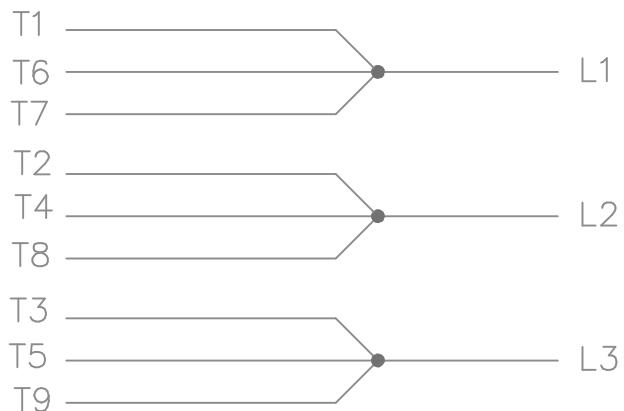
- NOTES:
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

(REPLACES B-SS503646)

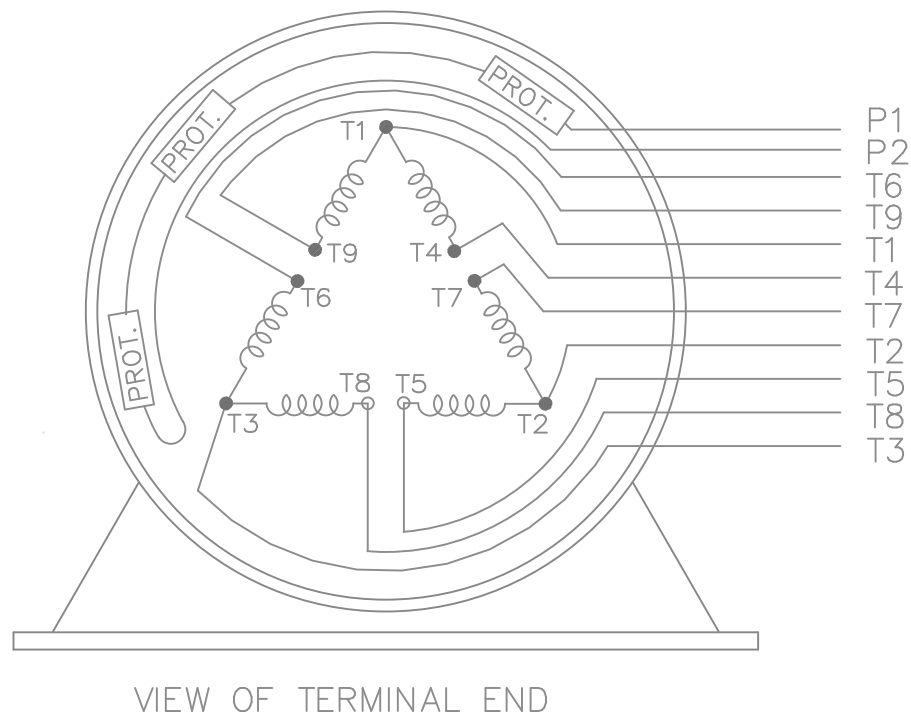
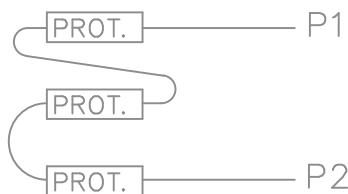
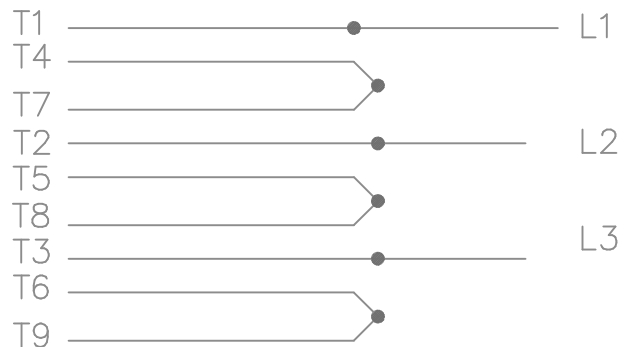
DASH	FRAME	B	C	2F	BS
1350	364TS	13.25	29.38	11.25	5.62
1450	365TS	14.25	30.38	12.25	6.12

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN KL 07-23-2001	
		DEC.	INCHES			CHK	DJK 07-23-2001
3	UPDATE OUTLINE WITH NEW D.E. BRACKET	JJB	06/21/2007	ML	.XX ±.03	TITLE OUTLINE	
2	REDRAWN IN AUTO CAD	TAT	06-29-2004	ML	.XXX ±.005	360TS FR. - EXP. PR.	
1	NEW DRAWING	MU38273	KL 07-23-2001	ML	.XXXX ±.0005	MATL	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV	
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						DIST WA	SIZE B DRAWING NO. SS518623 PAGE OF 3

LOW VOLTAGE



HIGH VOLTAGE



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

				TOLERANCES UNLESS SPECIFIED			DRAWN MJD 12-19-1997					
				DEC.	INCHES		CHK ML 01-07-1998					
				.X	±.1	APPD GK 01-07-1998						
				.XX	±.02	SCALE						
8	HIGH VOLT. SCHEMATIC WAS L1, L3 & L3	CN 32724	DRS 06-12-2004	ML	.XXX	±.005	REF					
7	REDRAWN ON CADD		MJD 01-07-1998		.XXXX	±.0005	FMF					
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	PREV						
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 ee7308ad			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WA-LB			A	EE7308AD			8

CERTIFICATION DATA SHEET

Model#: 364TSTGS6506 AN WINDING#: T364271 NONE 1
 CONN. DIAGRAM: A-EE7308AD ASSEMBLY: F1 ONLY
 OUTLINE: B-SS518623-1350

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
60	45	3600	3555	364TS	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	134/67	LINE OR INVERTER	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 94.5	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.1	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88	3/4 LOAD PF: 85.5	1/2 LOAD PF: 79	94.1	SQ CAGE INV RATED	39 / 19.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.6 LB-FT	870 / 435	140 LB-FT 158	265 LB-FT 299	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	7.3 LB-FT^2	40 LB-FT^2	20 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	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	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6312	6312						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	FALSE	NONE VOLTS
TSTATS (N/C)	NOT	NONE	NONE			

If Inverter equals NONE, contact factory for further information

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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
- FT-LB NONE V NONE Hz

DATE: 06/21/2017 07:52:51 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

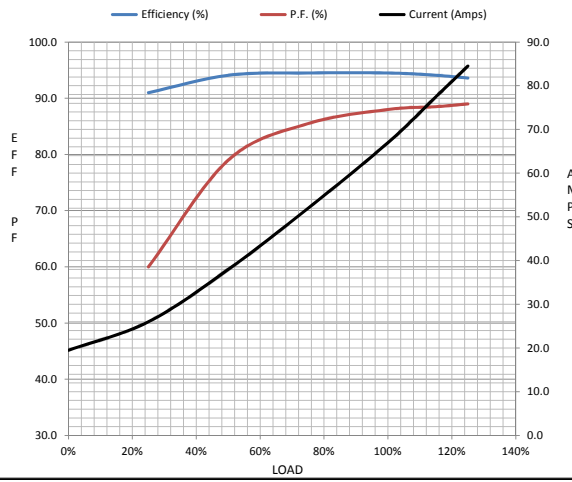
Date: 16-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



364TSGS6506
Submittal
 Data @ 460 V

Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	19.5	26.0	38.0	52.0	67.0	77.5	84.5	435	
Torque (ft-lb)	0.00	22.0	44.0	66.0	88.6	102	111	140	
RPM	3600	3590	3580	3570	3555	3550	3545	0	
Efficiency (%)		91.0	94.1	94.5	94.5	94.1	93.6		
P.F. (%)	6.0	60.0	79.0	85.5	88.0	88.5	89.0	28.5	

Motor Speed Data						Information Block	
	LR	Pull-Up	BD	Rated	Idle		
Speed (RPM)	0	1800	3330	3555	3600	HP	60.0
Current (Amps)	435	392	300	67.0	19.5	Sync. RPM	3600
Torque (ft-lb)	140	101	265	88.6	0.00	Frame	364
						Enclosure	TEFC
						Construction	TFS
						Voltage	230/460 V
						Frequency	60 Hz
						Design	A
						LR Code letter	G
						Service Factor	1.15
						Temp Rise @ FL	70 ° C
						Duty	CONT
						Ambient	40 ° C
						Elevation	1,000 feet
						Rotor/Shaft wk²	7.3 Lb-Ft²
						Ref Wdg	T364271 NONE
						Sound Pressure @ 1M	75 dBA
						VFD Rating	CONSTANT 2:1
						Outline Dwg	B-SS518623-1350
						Conn. Diag	A-EE7308AD



Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0650	0.0460	0.3980	0.3330	13.1970

