

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 365TSTGS16503
Catalog No: E575
75,3600,EPFC,365TS,3/60/230/460
Explosion Proof



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REGAL[®]

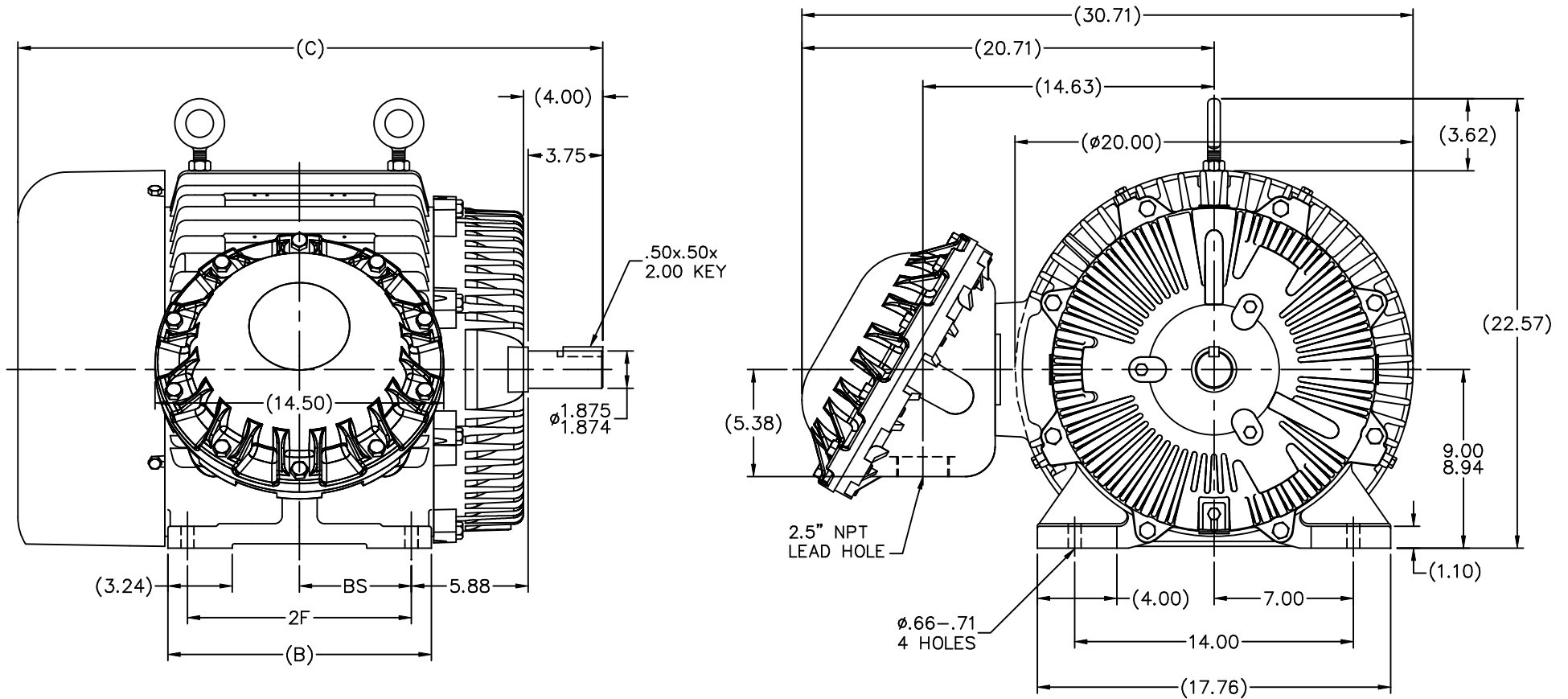


Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	169.0/84.5 A	Speed	3555 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	365TS
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	30.38 in	Frame Length	14.50 in
Shaft Diameter	1.875 in	Shaft Extension	4 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	B-SS518623-1450	Connection Diagram	A-EE7308AD



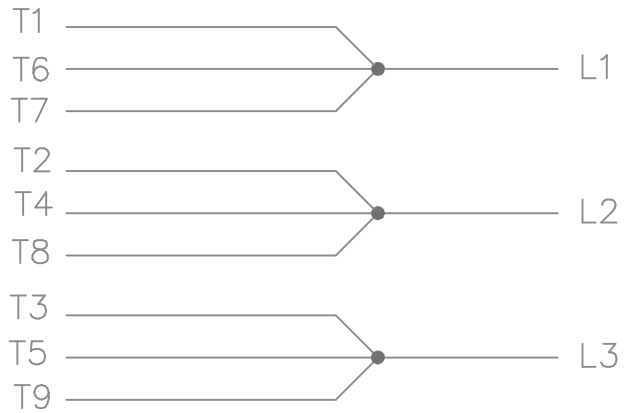
- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

(REPLACES B-SS503646)

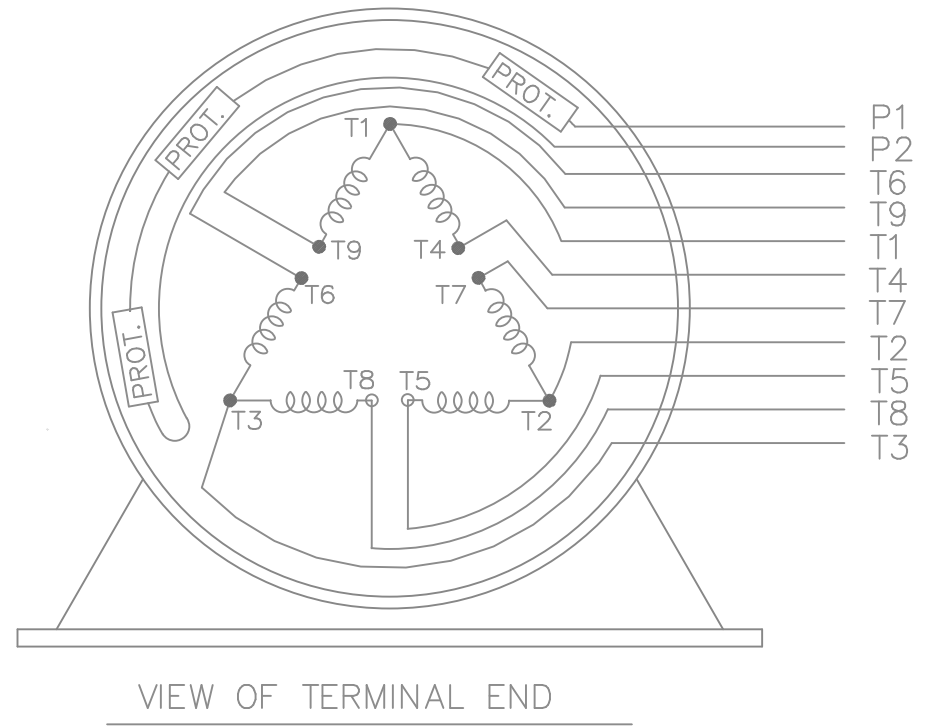
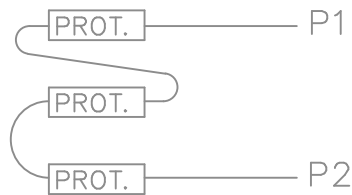
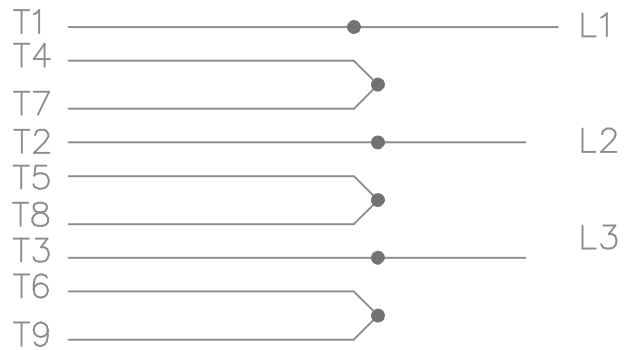
DASH	FRAME	B	C	2F	BS
1350	364TS	13.25	29.38	11.25	5.62
1450	365TS	14.25	30.38	12.25	6.12

		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		.XXXX ±.0005	MATL			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	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						CAD FILE ss518623	SIZE B	DRAWING NO. SS518623	PAGE OF 3
						RFP	DIST WA		

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	TITLE CONNECTION DIAGRAM					
7	REDRAWN ON CADD		MJD 01-07-1998		.XXXX	±.0005	3φ - WITH PROTECTORS					
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	REF					
				RFP	CAD FILE ee7308ad			SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST	WA-LB			A	EE7308AD			8

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CERTIFICATION DATA SHEET

Model#: 365TSTGS16503 AN **WINDING#:** T365262 R1 1
CONN. DIAGRAM: A-EE7308AD **ASSEMBLY:** F1 ONLY
OUTLINE: B-SS518623-1450

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
75&60	56&45	3600	3555&2960	365TS	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	169/84.5&162/ 81	LINE OR INVERTER	CONTINUOU S	F1	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&94.1	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5&89	3/4 LOAD PF: 86.5	1/2 LOAD PF: 81	93.6	SQ CAGE INV RATED	46 / 23

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
111 LB-FT	1084 / 542	180 LB-FT 162	320 LB-FT 288	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	8.2 LB-FT^2	- LB-FT^2	20 SEC.	-	925 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	6312						

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 2:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED
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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** Subject to change without notice.

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



365TSTGS16503

Submittal

Data @ 460 V

Motor Load Data

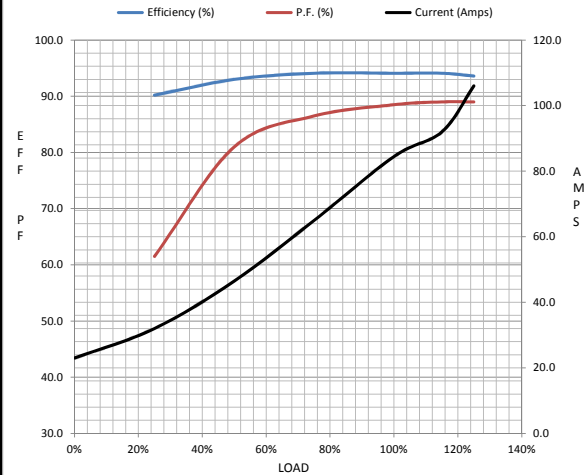
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	23.0	32.0	46.5	65.0	84.5	92.0	106	542
Torque (ft-lb)	0.00	27.5	55.0	83.0	111	128	140	180
RPM	3600	3590	3580	3565	3555	3,545	3540	0
Efficiency (%)		90.2	93.0	94.1	94.1	94.1	93.6	
P.F. (%)	6.0	61.5	81.0	86.5	88.5	89.0	89.0	31.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3555	3600
Current (Amps)	542	488	335	84.5	23.0
Torque (ft-lb)	180	162	320	111	0.00

Information Block

HP	75.0			
Sync. RPM	3600			
Frame	365			
Enclosure	TEFC			
Construction	TFS			
Voltage	30/460#190/38V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	8.2 Lb-Ft ²			
Ref Wdg	T365262 R1			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS518623-1450			
Conn. Diag	A-EE7308AD			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0520	0.0380	0.3190	0.2880	11.5290



Speed -Torque Curve

