marathon®

General Purpose Motors

Model No: 286TSTFCA6003
Catalog No: GT1230

General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286TSC Frame, TEFC

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Product Information Packet: Model No: 286TSTFCA6003, Catalog No: GT1230 General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 286TSC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**30 & 25 Hp**
Output KW	**22.4 & 18.7 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3560 & 2960 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.0**	Frame	**286TSC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**93 & 92.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**68/34 & 68/34 A**
Power Factor	**89**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6211**
Opp Drive End Bearing Size	**6211**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

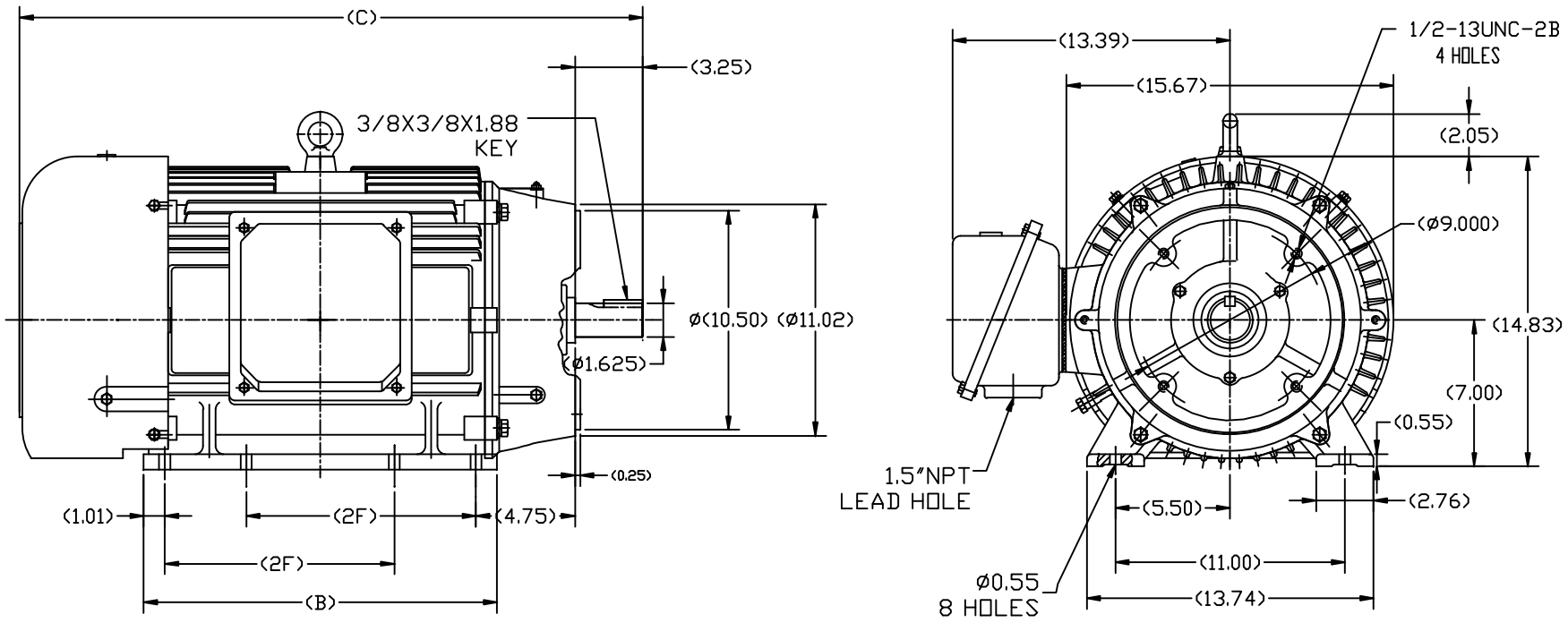
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.23 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Overall Length	**30.0 in**
Shaft Diameter	**1 5/8 in**	Shaft Extension	**3.25 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1**

Drawings

Connection Drawing	**A-EE7308AA**	Outline Drawing	**SS620301-286TSC**

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284TSC	28.82	15.75	9.50
286TSC	30.00	16.93	11.00
FRAME	C	B	2F

NO.	REVISION	BY & DATE	CHK
1	CORRECTED OL DIMENSIONS	MDL 2/9/2012	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2

REGAL-BELOIT CORPORATION

TITLE: OUTLINE
284/286TSC FR-TEFC-CAST IRON

MAT'L.

FINISH

CAD FILE: SS620301

RFP

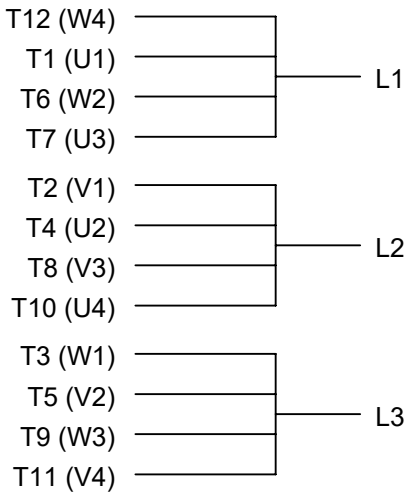
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DRAWN	SY 4-21-2010
CHK	HZJ 4-21-2010
APPD	CL 4-21-2010
SCALE	2=13
REF	
FMF	HWADA
PREV	

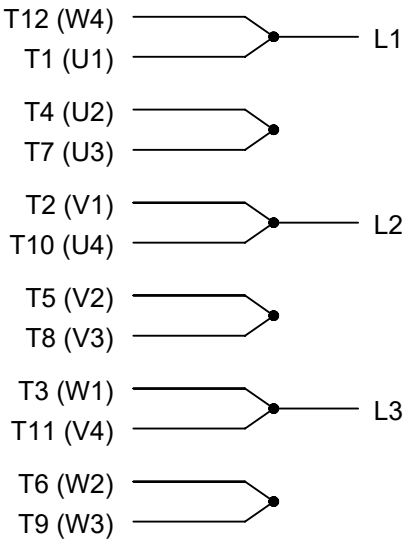
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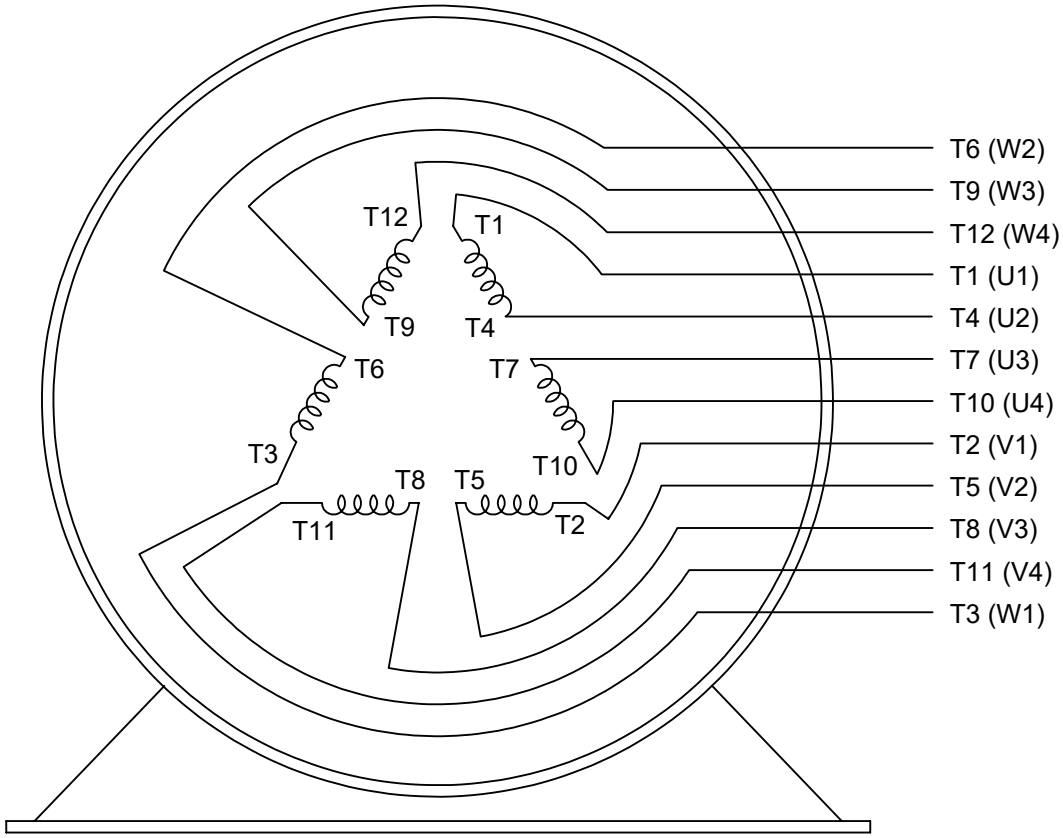
2/9/2012 11:41:29 AM - Converted by Connexus



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION: L	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: LZ	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 01-12-1994	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS
				DATE: 01-14-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7308AA / SHEET: 1 OF 1

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Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

286TSTFCA6003

Submittal

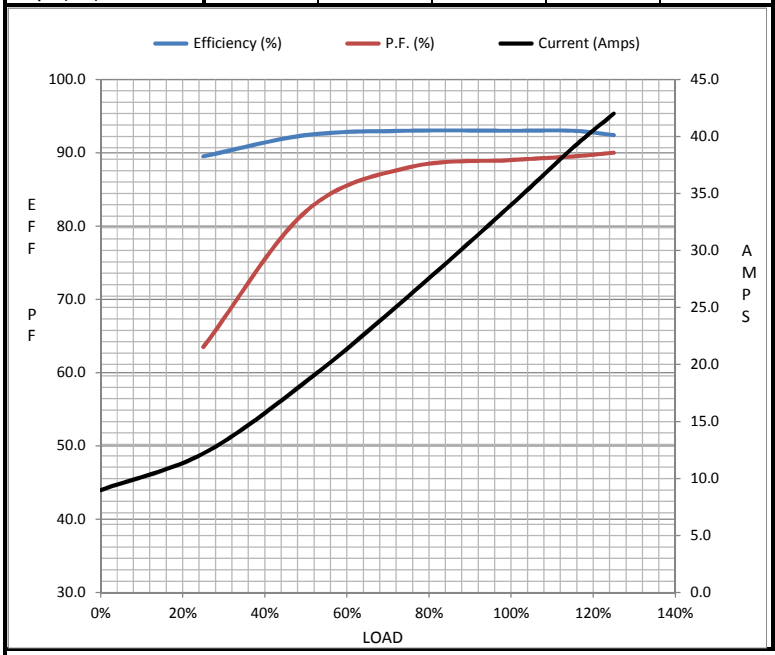
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.0	12.2	18.5	26.0	34.0	39.0	42.0	217	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.2	51.0	55.5	95.0	
RPM	3600	3590	3580	3570	3560	3,552	3548	0	
Efficiency (%)		89.5	92.4	93.0	93.0	93.0	92.4		
P.F. (%)	8.0	63.5	82.0	88.0	89.0	89.5	90.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3350	3560	3600
Current (Amps)	217	195	135	34.0	9.0
Torque (ft-lb)	95.0	72.5	132	44.2	0.00



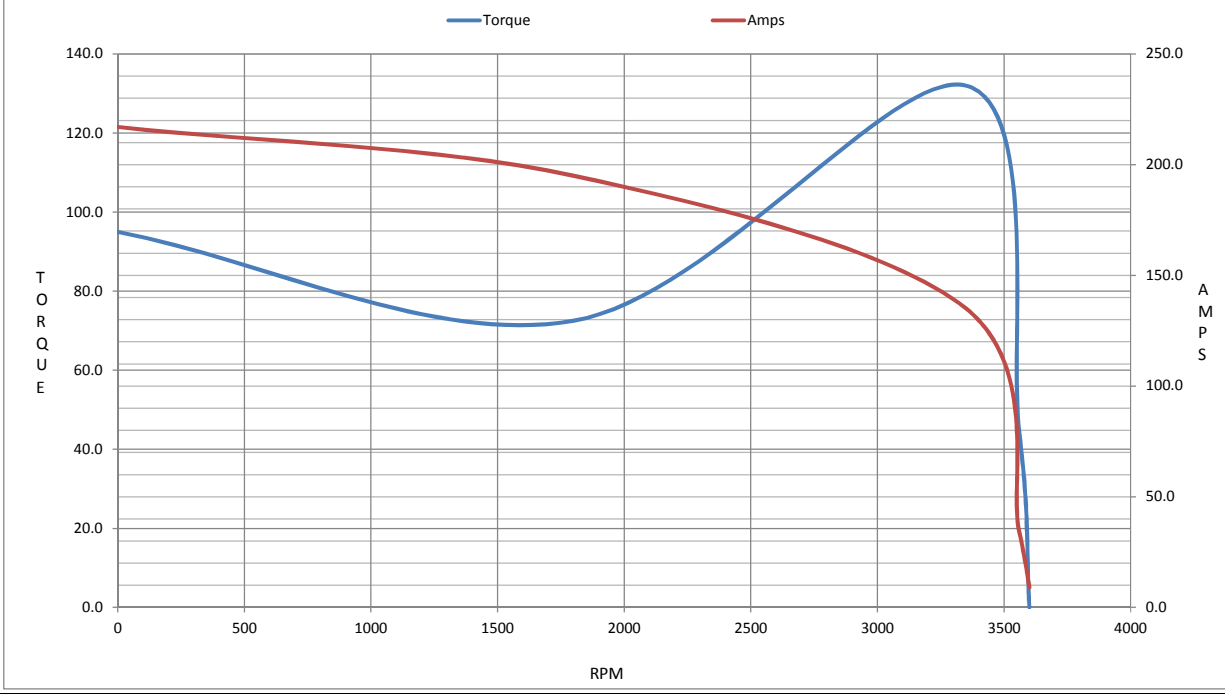
Information Block

HP	30.0
Sync. RPM	3600
Frame	286
Enclosure	TEFC
Construction	TFC
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	A
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	3.2 Lb-Ft²
Ref Wdg	CHT28620001 NONE
Sound Pressure @ 1M	72 dBA
VFD Rating	CONSTANT 2:1
Outline Dwg	B-SS620301
Conn. Diag	A-EE7308AA
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1560	0.0950	0.6010	0.8180	29.4870

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	286TSTFCA6003 AA	**WINDING#:**	CHT28620001 NONE 1
CONN. DIAGRAM:	A-EE7308AA	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS620301		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	3600	3560&2960	286TSC	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	68/34&68/34	LINE OR INVERTER	CONTINUOUS	F7	1.15/1.0	40	3300

FULL LOAD EFF: 93&92.4	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&90	3/4 LOAD PF: 88	1/2 LOAD PF: 82	91	SQ CAGE INV RATED	18 / 9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.2 LB-FT	434 / 217	95 LB-FT 215	132 LB-FT 300	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	3.2 LB-FT^2	35 LB-FT^2	20 SEC.	2	550 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6211	BALL 6211	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

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

* NOTES *

DATE: 06/27/2017 02:14:26 AM
FORM 3531 REV.3 02/07/99
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