marathon®

General Purpose Motors

Model No: 286TTFCA6028
Catalog No: GT1231

General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 286TC Frame, TEFC

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Product Information Packet: Model No: 286TTFCA6028, Catalog No: GT1231 General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 286TC 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	**1780 & 1475 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**286TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**94.1 & 93 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**73/36.5 & 74/37 A**
Power Factor	**81.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6210**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

Technical Specifications

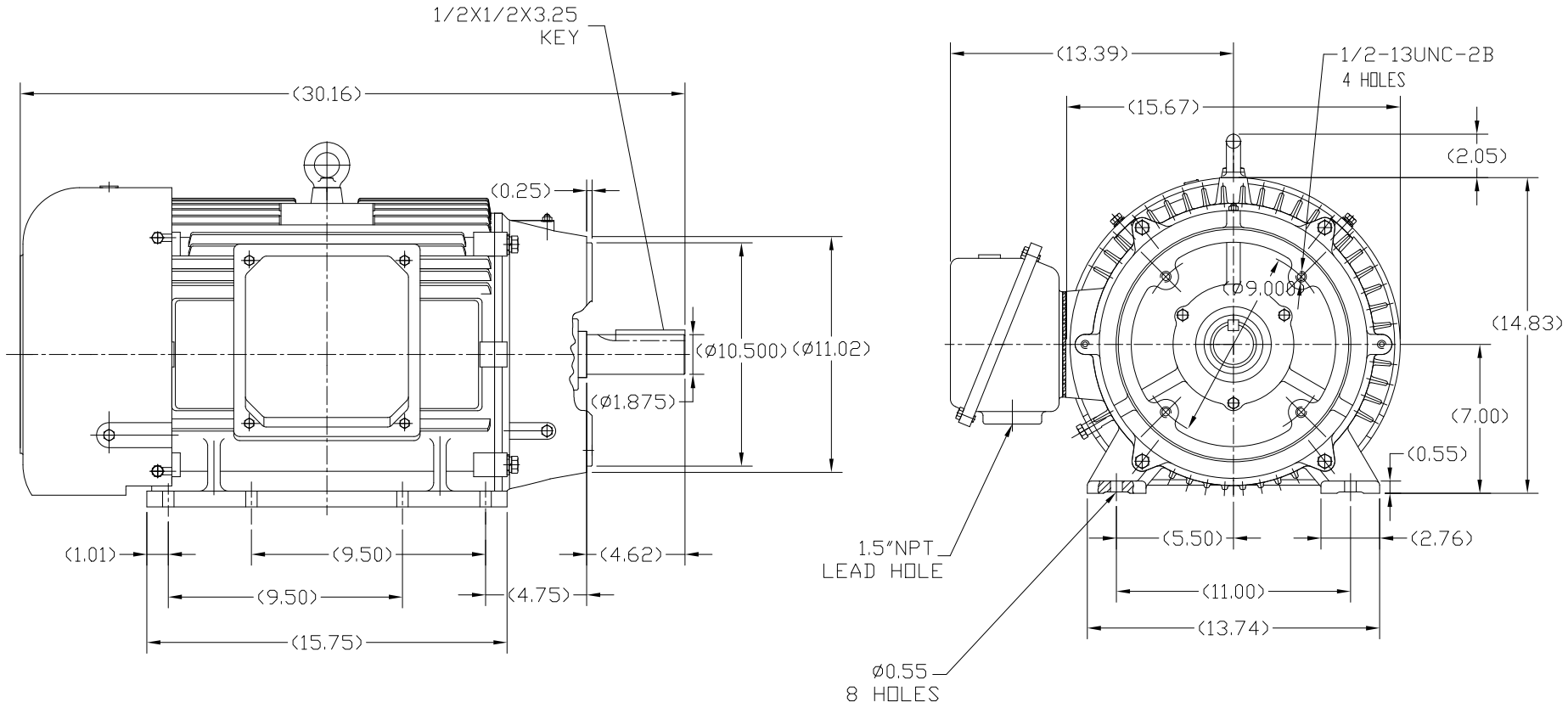
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Wye Start Delta Run**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.215 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**31.34 in**
Shaft Diameter	**1 7/8 in**	Shaft Extension	**4.62 in**
Assembly/Box Mounting	**F1/F2 Capable**		

Drawings

Connection Drawing	**A-EE7308AA**	Outline Drawing	**SS620299-286TC**

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DRAWING MAY NOT BE TO SCALE

284TC	30.16	15.75	9.50
286TC	31.34	16.93	11.00
FRAME	C	B	2F

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
E	SV	09/23/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0027816	RMS	09/23/2026

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±0.5°
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

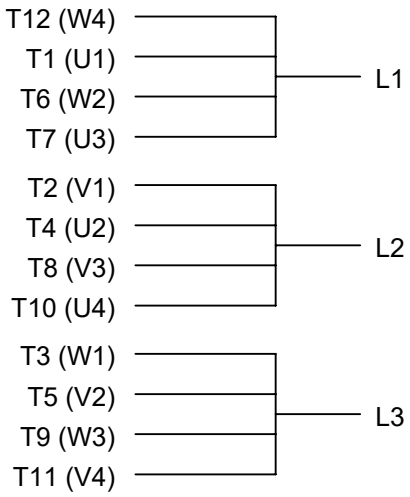
DRAWN BY	SY
DATE	04/21/2010
APPROVED BY	CL
DATE	04/21/2010
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

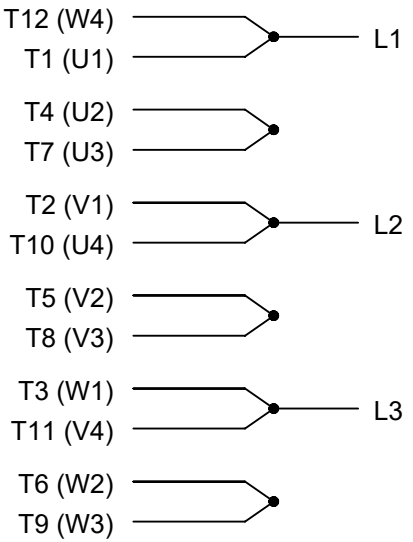
DESCRIPTION: OUTLINE
284/286 TC FR - TEFC - CAST IRON

MATERIAL | PROCESS/FINISH

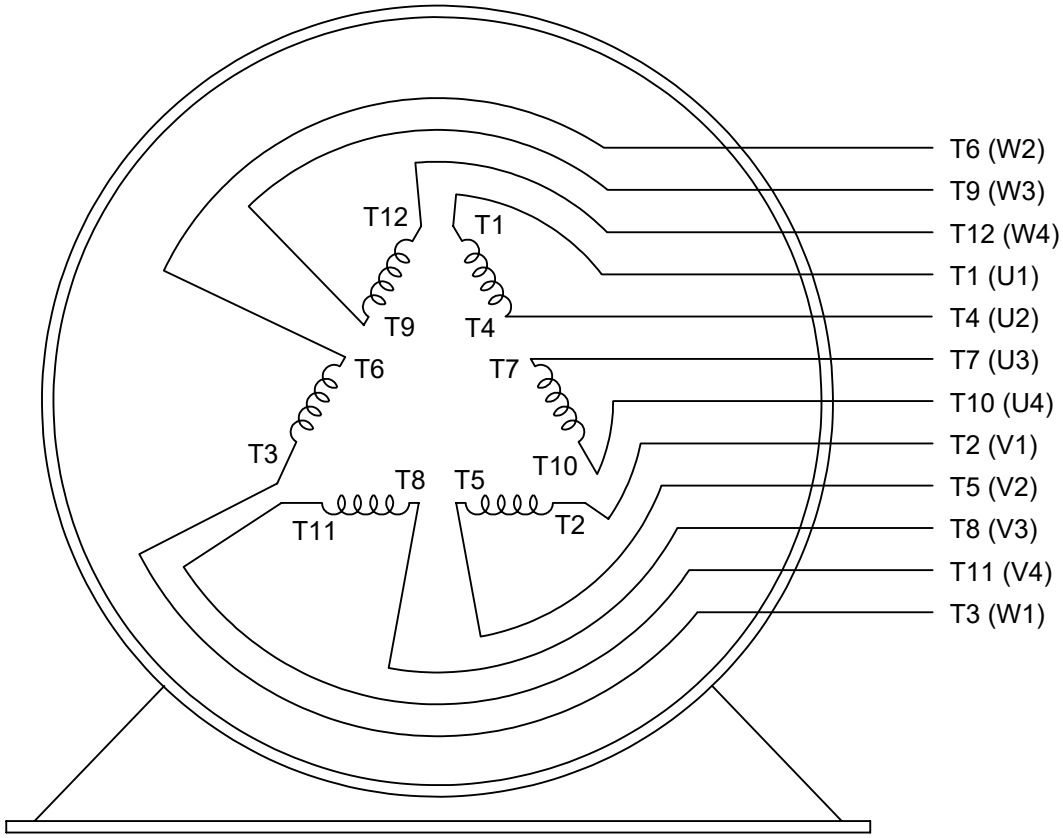
SIZE	DRAWING NUMBER	SHEET
B	SS620299	1 OF 1



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

marathon® electric

286TTFCA6028

Submittal

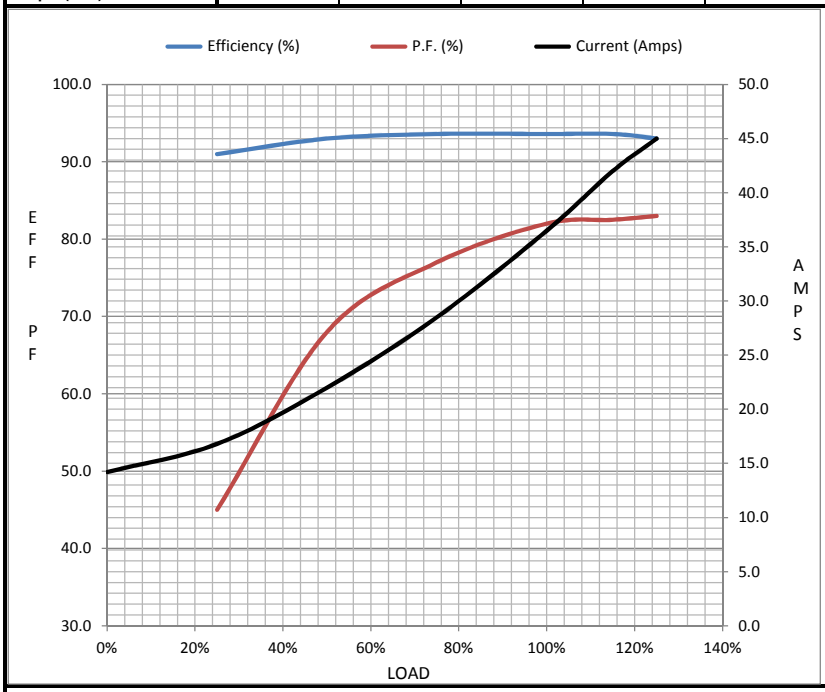
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.2	16.8	22.0	28.5	36.5	42.0	45.0	215	
Torque (ft-lb)	0.00	22.0	44.0	66.5	88.5	102	112	170	
RPM	1800	1795	1790	1782	1775	1,772	1770	0	
Efficiency (%)		91.0	93.0	93.6	93.6	93.6	93.0		
P.F. (%)	4.5	45.0	68.0	77.0	82.0	82.5	83.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1100	1675	1775	1800
Current (Amps)	215	185	125	36.5	14.2
Torque (ft-lb)	170	160	212	88.5	0.00



Information Block

HP	30.0
Sync. RPM	1800
Frame	286
Enclosure	TEFC
Construction	TFC
Voltage	230/460#190/38(V
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	5.7 Lb-Ft²
Ref Wdg	CHT28640003 NONE
Sound Pressure @ 1M	68 dBA
VFD Rating	NONE
Outline Dwg	B-SS620299
Conn. Diag	A-EE7308AA

Additional Specifications:

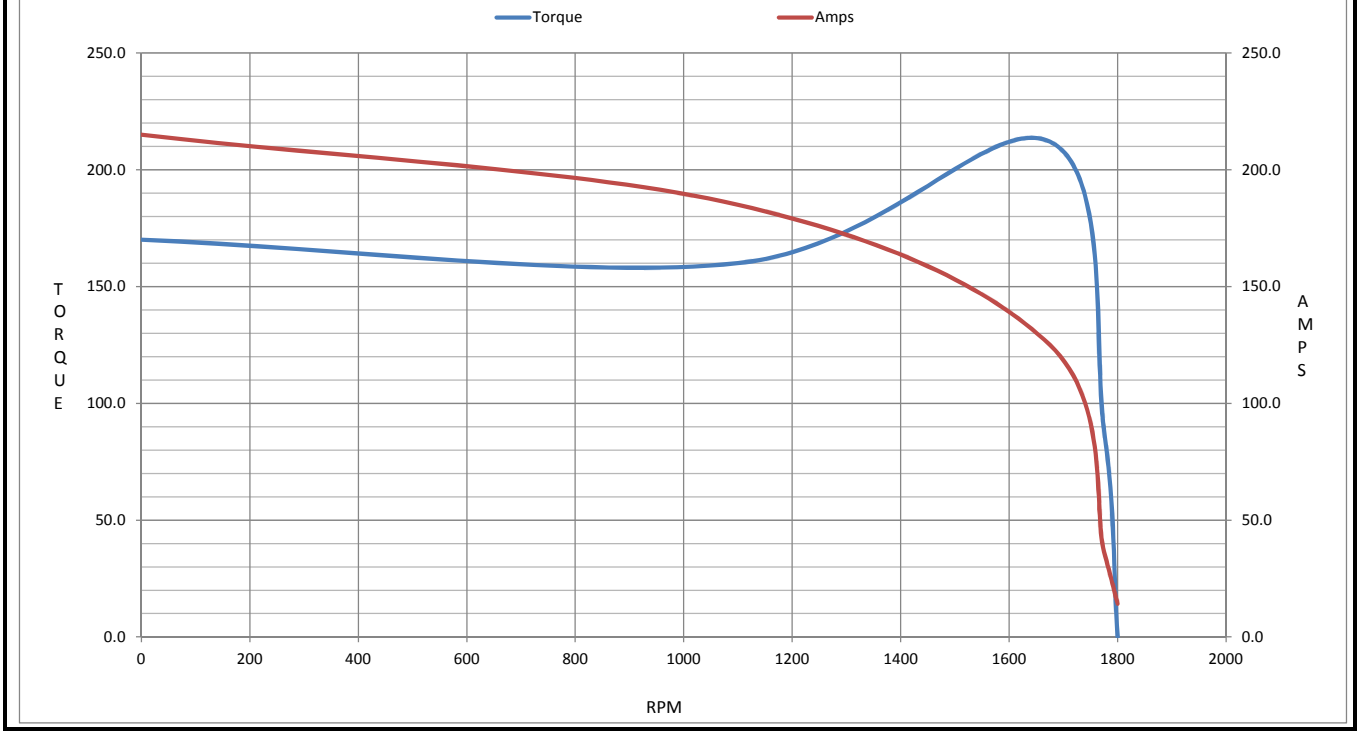
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1510	0.1040	0.5430	1.0300	18.6170

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	286TTFCA6028 AA	**WINDING#:**	CHT28640003 NONE 1
CONN. DIAGRAM:	A-EE7308AA	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS620299		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	1800	1780&1475	286TC	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	73/36.5&74/37	WYE START DELTA RUN	CONTINUOUS	F7	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&93	3/4 LOAD EFF: 93.6	1/2 LOAD EFF: 93	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81.5&82	**3/4 LOAD PF: 77**	**1/2 LOAD PF: 68**	93	SQ CAGE IND RUN	28.4 / 14.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.5 LB-FT	430 / 215	170 LB-FT 192	212 LB-FT 240	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
68 dBA	78 dBA	5.7 LB-FT^2	225 LB-FT^2	20 SEC.	2	600 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 6311	BALL 6210	POLYREX EM	T	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: NONE
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

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FORM 3531 REV.3 02/07/99
** Subject to change without notice.