

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 286TSTDC6003

Catalog No: U293

40 HP General Purpose Motor, 3 phase, 3600 RPM, 575 V, 286TS Frame, ODP
General Purpose Motors



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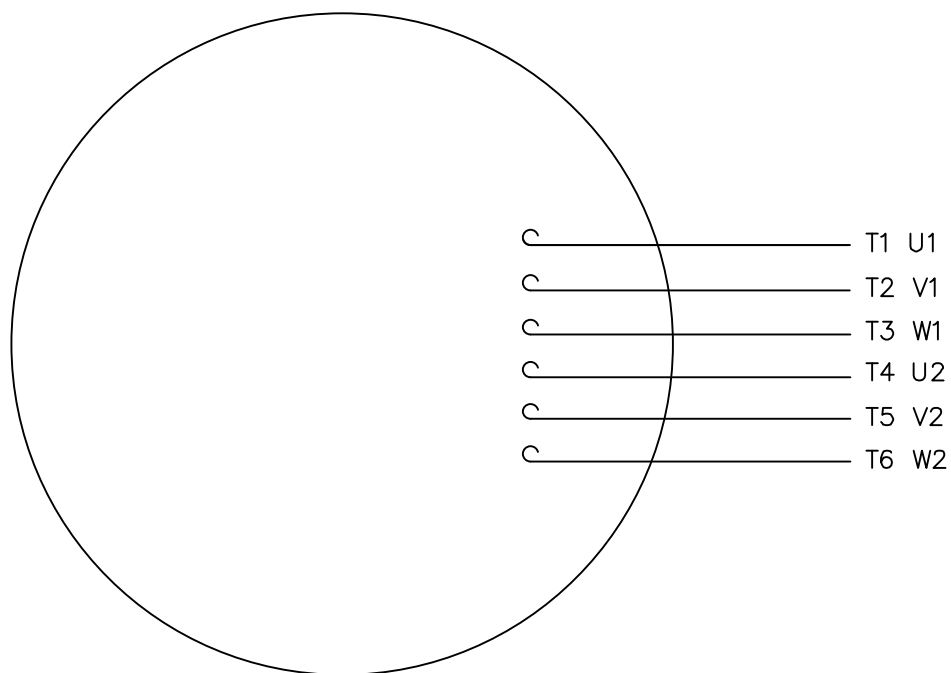
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	575 V
Current	36.5 A	Speed	3560 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	286TS	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

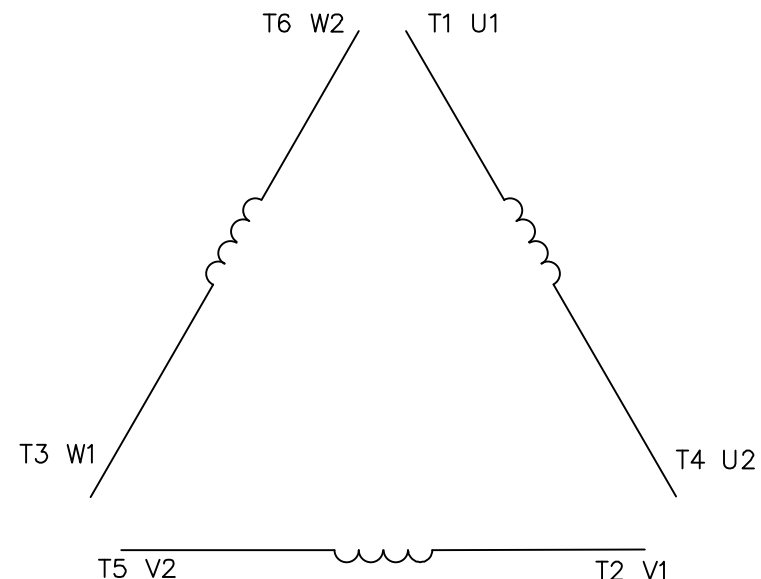
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.198 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	23.62 in
Shaft Diameter	1.625 in	Shaft Extension	3.5 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	16955360ME	Connection Drawing	00519001ME


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LINE LEADS



	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

		TOLERANCES UNLESS SPECIFIED		 MARATHON ELECTRIC	DRAWN PG 05/07/82	
		DEC.	INCHES		CHK	
		.X	±.1		APPD TEM 05/07/82	
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	.XX ±.01	TITLE	EXTERNAL WIRING DIAGRAM	
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	.XXX ±.005		STAR START – DELTA RUN	
01	REDRAWN ON CAD	DBT 05/30/97	.XXXX ±.0005	MAT'L. Y-CONNECTED START – DELTA CONNECTED RUN		SCALE 1=1
NO.	REVISION	BY & DATE	CHK ANG ±1/2'	FINISH SINGLE VOLTAGE		REF
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 00519001ME		DRAWING NO.
			DIST			REV.
				SIZE A		005190-01ME
						03

CERTIFICATION DATA SHEET

Model#: 286TSTDC6003 AA

WINDING#: T14502018 NONE 4

CONN. DIAGRAM: 00519001ME

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: 16955360ME

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40	30	3600	3560	286TS	DP	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	36.5	LINE OR INVERTER	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 93.6	3/4 LOAD EFF: 94	1/2 LOAD EFF: 94	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88	3/4 LOAD PF: 87	1/2 LOAD PF: 82.8	93	SQ CAGE INV RATED	9.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
60 LB-FT	268	124 LB-FT 207	190 LB-FT 0	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	- LB-FT^2	- LB-FT^2	15 SEC.	-	452 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6312	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 10:1			
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			
NONE FT-LB	NONE V	NONE Hz	

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** Subject to change without notice.

Data Sheet

Date: 16-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



286TSTDC6003

Submittal

Data @ 575 V

Motor Load Data

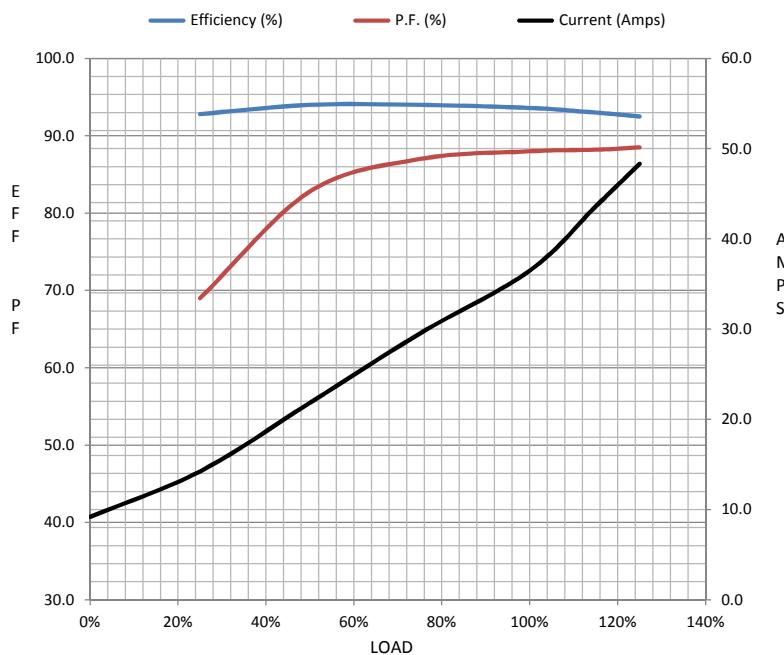
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	9.2	14.2	21.8	29.5	36.5	43.6	48.3	268	
Torque (ft-lb)	0.00	17.7	33.2	47.4	60.0	69.0	78.3	124	
RPM	3600	3585	3575	3565	3560	3,545	3535	0	
Efficiency (%)		92.8	94.0	94.0	93.6	93.0	92.5		
P.F. (%)	5.8	69.0	82.8	87.0	88.0	88.2	88.5	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3312	3560	3600
Current (Amps)	268	247	161	36.5	9.2
Torque (ft-lb)	124	106	190	60.0	0.00

Information Block

HP	40.0			
Sync. RPM	3600			
Frame	286			
Enclosure	DP			
Construction	TDC			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	75 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.00 Lb-Ft ²			
Ref Wdg	T14502018 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	16955360ME			
Conn. Diag	51090.01			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed -Torque Curve

