

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 405TTDS16060

Catalog No: U904A

125 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 405T Frame, ODP
General Purpose Motors



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RegalRexnord

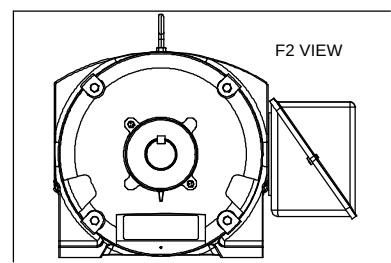
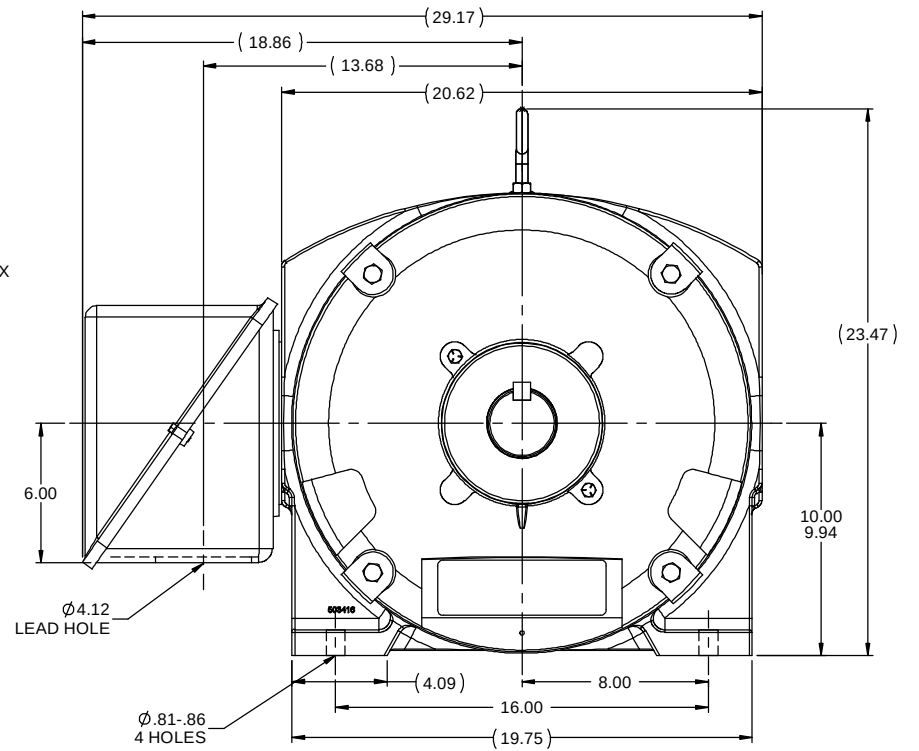
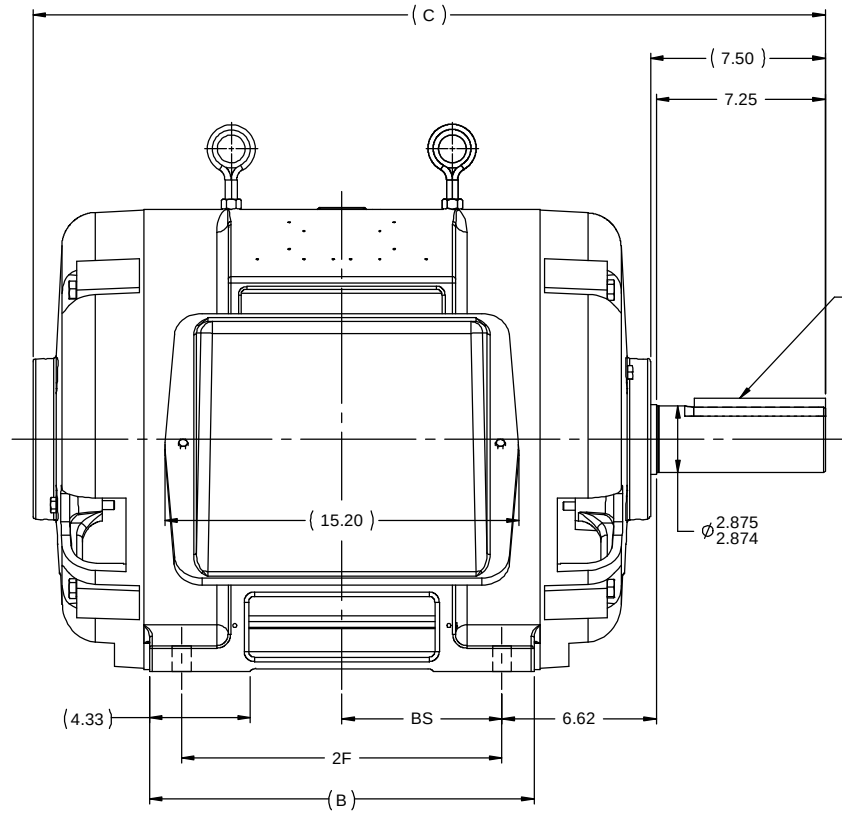
Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	575 V
Current	113.0 A	Speed	1782 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	405T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.042 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	34.01 in
Frame Length	17.00 in	Shaft Diameter	2.875 in
Shaft Extension	7.5 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300BH	Outline Drawing	B-SS509599-1700

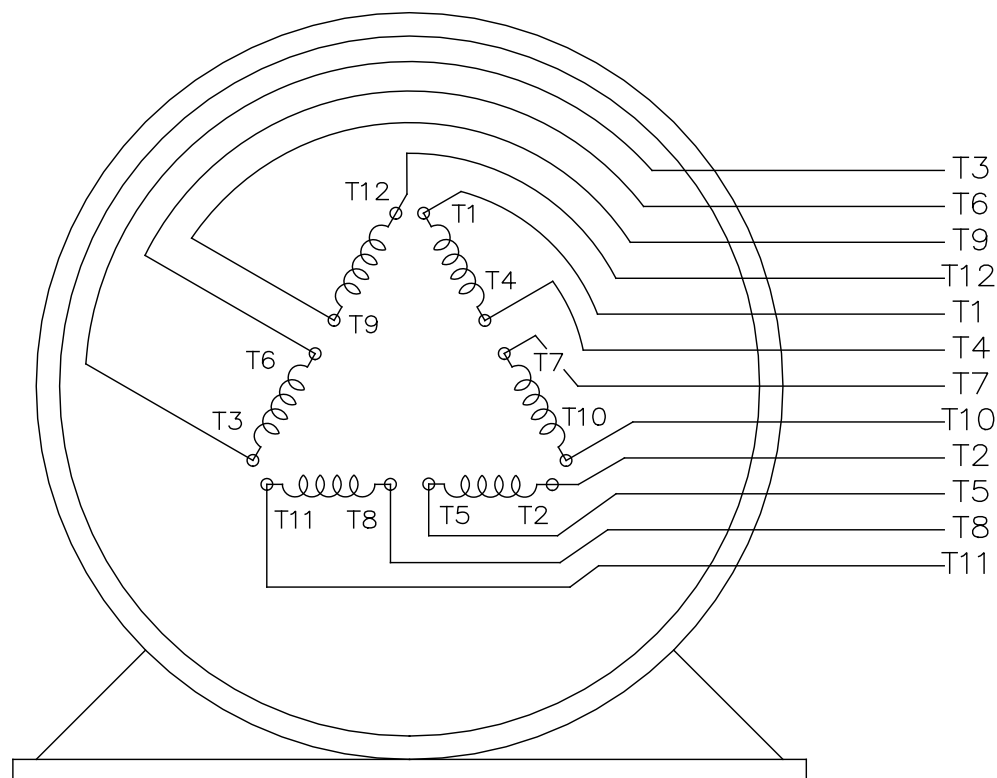
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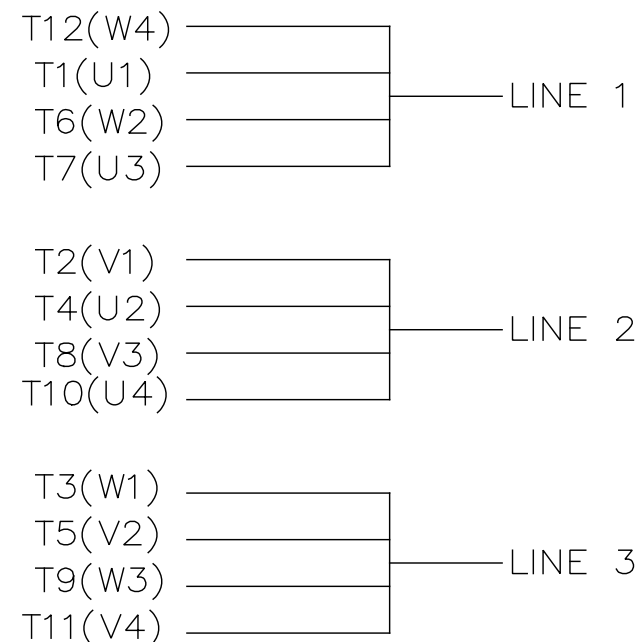
- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °
 3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	BS	2F
1550	404T	15.00	32.51	6.12	12.25
1700	405T	16.50	34.01	6.88	13.75

		TOLERANCES UNLESS SPECIFIED		marathon electric		DRAWN TJB 2/24/1988	
NO	REVISION	BY & DATE	CHK	ANG	FINISH	PAGE	OF
11	ADDED F2 VIEW	TJW 1/6/2010	CTO	DEC	INCHES	CHK	JL 2/24/1988
10	REDRAWN IN AUTOCAD	TAT 6/29/2004	ML	X	±.1	APPR	ML 2/24/1988
9	REPLACED ONE EYEBOLT WITH TWO CN28063	BJW 2/10/2000	XX		±.03	SCALE	3:16
8	UPDATED C'BOX GEOMETRY CN28063	TRB 2/10/2000	XXX		±.005	REF	
7	REDRAWN ON CADD	TLB 2/24/1988	XXXX		±.0005	FMF	
					±7'30"		
THIRD ANGLE PROJECTION		RFP		PREV		SIZE	DRAWING NO
		NETWORK FILE NAME		SS509599		B	SS509599
							REV
							11



VIEW OF TERMINAL END



				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005		
				DEC.	INCHES		CHK	ML	02-11-2005
				.X	±.1		APPD	GK	02-11-2005
				.XX	±.02	TITLE CONNECTION DIAGRAM 12 LEAD- SINGLE VOLTAGE	SCALE		
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX	±.005	REF		
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.XXXX	±.0005	FMF		
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				RFP	02-11-2005	CAD FILE ee7300bh	SIZE	DRAWING NO.	PAGE OF
				DIST	LB		A	EE7300BH	REV. C

CERTIFICATION DATA SHEET

Model#: 405TTDS16060 AN
 CONN. DIAGRAM: A-EE7300BH
 OUTLINE: B-SS509599-1700

WINDING#: T405479 R1 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125	93	1800	1782	405T	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	113	PWS & YDRUN OR INV	CONTINUOU S	F1	1.15	40	3300

FULL LOAD EFF: 95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: 83.5	1/2 LOAD PF: 77	94.5	SQ CAGE INV RATED	33.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
368 LB-FT	700	575 LB-FT 156	870 LB-FT 236	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	27 LB-FT^2	- LB-FT^2	20 SEC.	-	1200 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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6316	6313						

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

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INVERTER TORQUE: VARIABLE 10:1 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: 06/22/2017 12:17:21 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



405TTDS16060

Submittal

Data @ 575 V

Motor Load Data

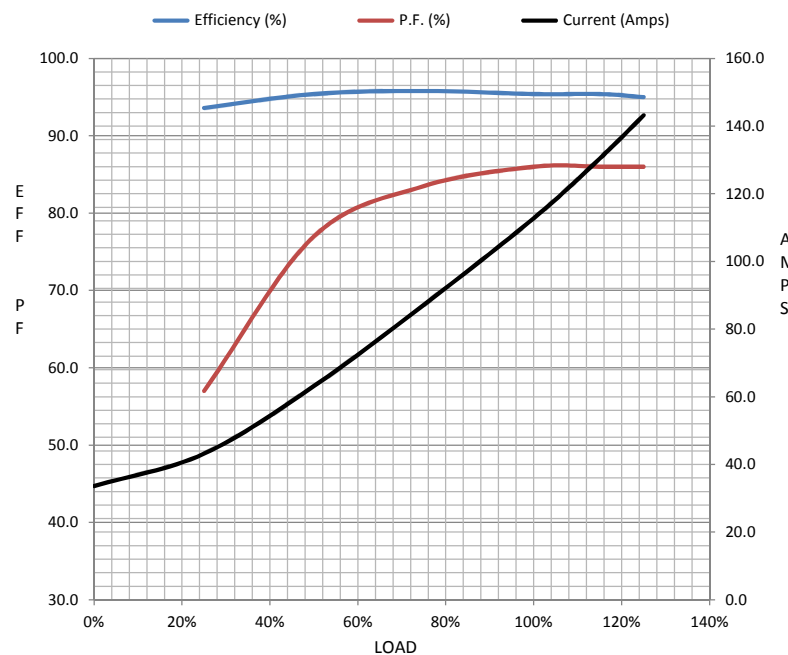
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	33.6	43.2	63.2	87.2	113	130	143	700	
Torque (ft-lb)	0.00	91.5	183	276	368	423	462	575	
RPM	1800	1797	1793	1788	1782	1,779	1776	0	
Efficiency (%)		93.6	95.4	95.8	95.4	95.4	95.0		
P.F. (%)	4.5	57.0	77.0	83.5	86.0	86.0	86.0	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1782	1800
Current (Amps)	700	612	376	113	33.6
Torque (ft-lb)	575	535	870	368	0.00

Information Block

HP	125.0			
Sync. RPM	1800			
Frame	405			
Enclosure	DP			
Construction	TDS			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	27.0 Lb-Ft²			
Ref Wdg	T405479 R1			
Sound Pressure @ 1M	80 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS509599-1700			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0490	0.0290	0.3690	0.3370	10.3210



Speed -Torque Curve

