

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 405TTDS6060

Catalog No: E923

XRI® General Purpose General Purpose Motor, 125 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V,
1800 & 1500 RPM, 405T Frame, DP



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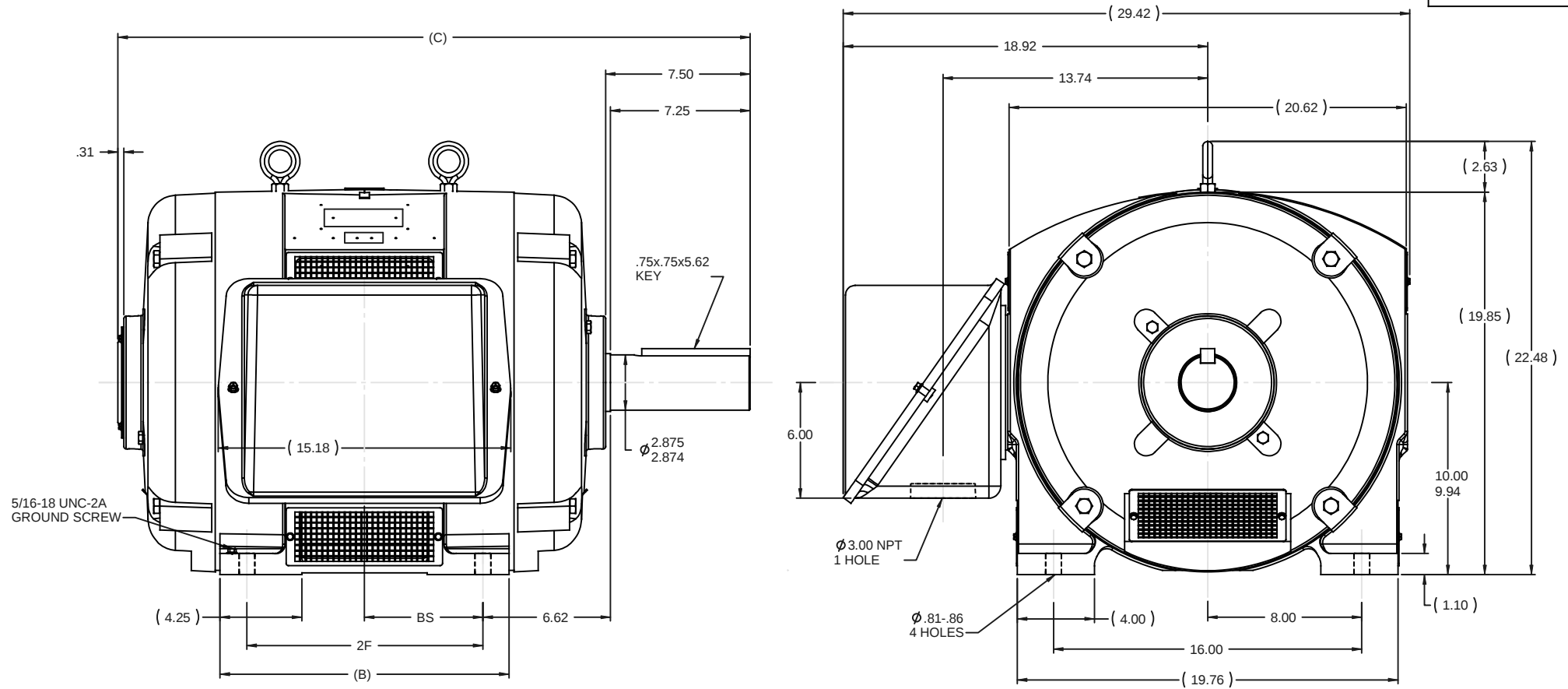
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	125 & 125 Hp
Output KW	93.0 & 93.0 kW	Voltage	460 & 380 V
Speed	1782 & 1475 rpm	Service Factor	1.15 & 1.0
Frame	405T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	141 & 172 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
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 Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
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	34.31 in
Frame Length	17.00 in	Shaft Diameter	2.875 in
Shaft Extension	7.5 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS513937-1700	Connection Drawing	A-EE7300BH

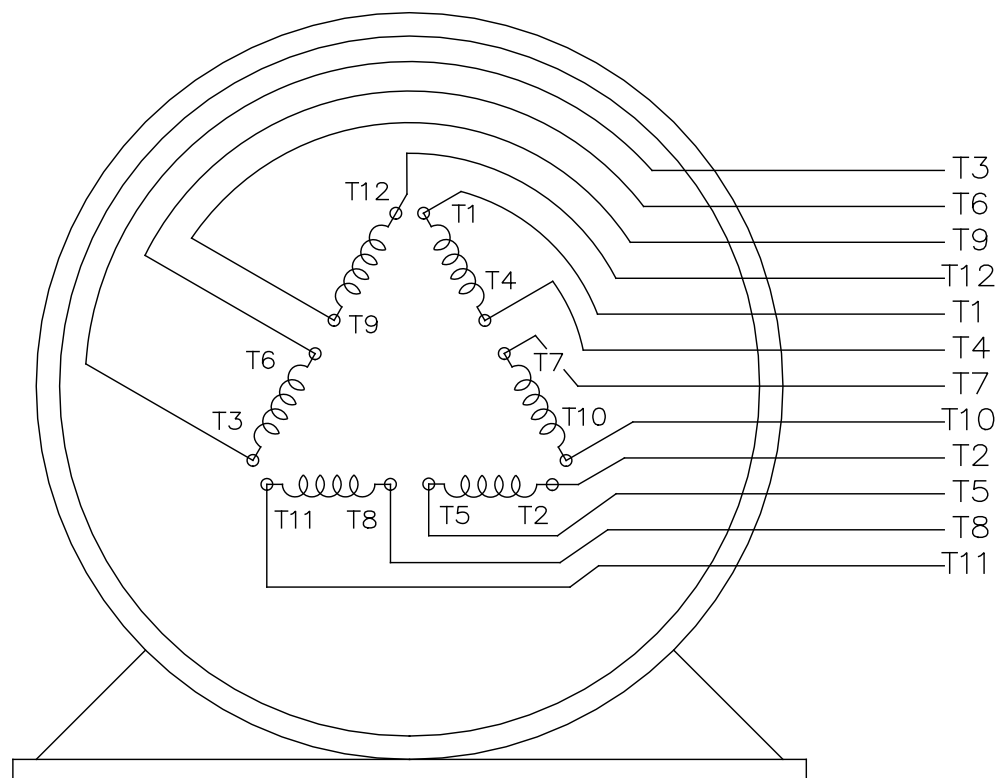


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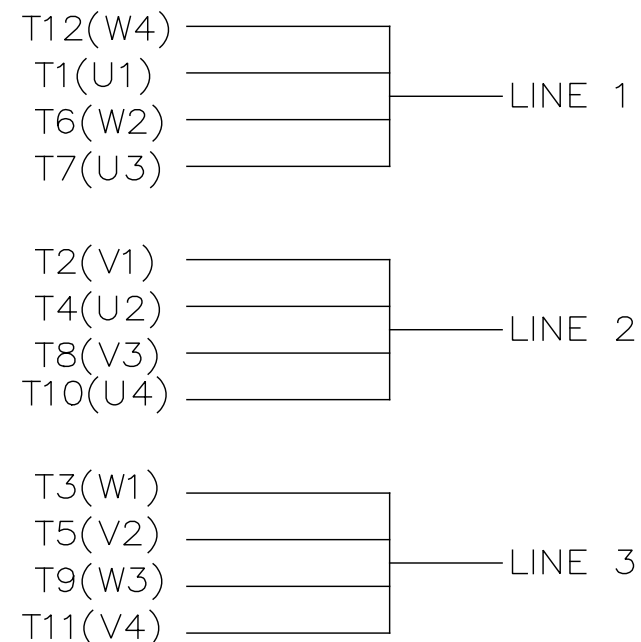
- 1- BOX CAN BE ROTATED IN 90° STEPS
- 2- BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
- 3- NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

DASH	FRAME	B	C	2F	BS
1550	404T	15.00	32.81	12.25	6.12
1700	405T	16.50	34.31	13.75	6.88

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN DA 02-06-1991	
				DEC	INCHES		CHK TB 02-11-1991	
4	C'BOX LEAD HOLE WAS $\phi 2.50$ NPT 2 HOLES CN 32922	DRS 12-07-2004	ML	X	± 1	TITLE OUTLINE - DR.PR. 404 & 405T FR. - SCREENS - GRD SCREW	APPR ML 02-11-1991	SCALE 1:5
3	UPDATED C'BOX GEOMETRY CN 28063	DRS 12-07-2004	XX	X	$\pm .03$		REF	
2	ADDED SCREENS TO FRONT & REAR BRACKETS 4041416	DJK 06-18-1993	XXX	X	$\pm .005$		FMF	
1	NEW DRAWING CN 13005	DA 02-06-1991	XXX	X	$\pm .0005$		PREV	
NO REVISION				CHK	ANG $\pm 7'30''$	FINISH	SIZE B	
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 SS513937	DRAWING NO		REV
				DIST	WA	SS513937		4



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		SCALE					
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX	±.005	TITLE CONNECTION DIAGRAM 12 LEAD- SINGLE VOLTAGE			REF		
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.XXXX	±.0005	MAT'L.			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	REV.
				DIST LB				A	EE7300BH			C

CERTIFICATION DATA SHEET

Model#: 405TTDS6060 CP
 CONN. DIAGRAM: A-EE7300BH
 OUTLINE: B-SS513937-1700

WINDING#: T405479 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&125	93&93	1800	1782&1475	405T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	141&172	PWS & YDRUN	CONTINUOUS	F1	1.15/1.0	40	3300

FULL LOAD EFF: 95.4&94.5	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&87	3/4 LOAD PF: 84.5	1/2 LOAD PF: 78.5	95	SQ CAGE IND RUN	40

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
368 LB-FT	875	550 LB-FT 149	875 LB-FT 238	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	650 LB-FT^2	20 SEC.	2	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						
6316	6313	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

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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

DATE: 06/22/2017 12:20:39 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



405TTDS6060

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	40.0	53.0	77.5	108	141	163	178	875	
Torque (ft-lb)	0.00	91.5	183	276	368	423	462	550	
RPM	1800	1796	1792	1785	1782	1,778	1775	0	
Efficiency (%)		94.1	95.4	95.8	95.4	95.4	95.0		
P.F. (%)	4.5	59.0	78.5	84.5	86.0	86.5	86.5	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	900	1700	1782	1800					
Current (Amps)	875	765	475	141	40.0					
Torque (ft-lb)	550	535	875	368	0.00					
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Information Block				
						HP		125.0		
						Sync. RPM		1800		
						Frame		405		
						Enclosure		DP		
						Construction		TDS		
						Voltage		460#380 V		
						Frequency		60 Hz		
						Design		A		
						LR Code letter		G		
						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 NONE		
Sound Pressure @ 1M		80 dBA								
VFD Rating		NONE								
Outline Dwg		B-SS513937-1700								
Conn. Diag		A-EE7300BH								
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.0310		0.0190		0.2360		0.2140		6.3060		

Speed -Torque Curve

