

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 404TTDS6060

Catalog No: E922

XRI® General Purpose General Purpose Motor, 100 & 100 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1800 & 1500 RPM, 404T Frame, DP



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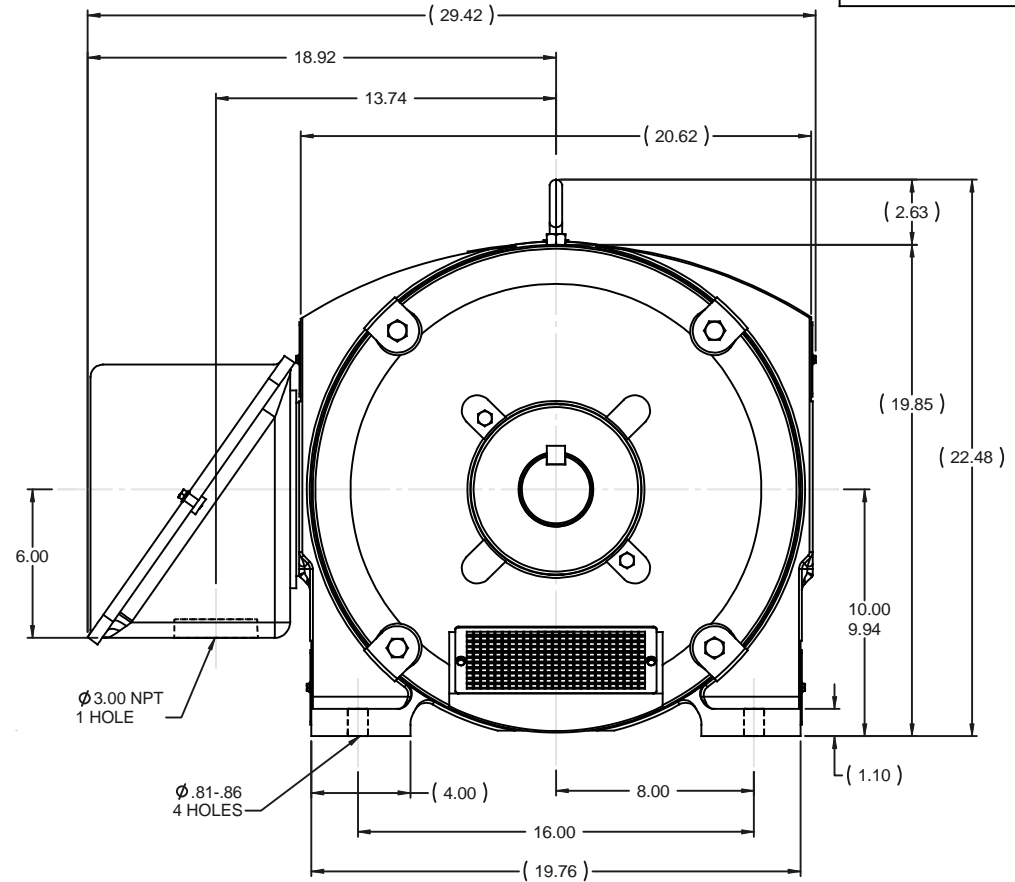
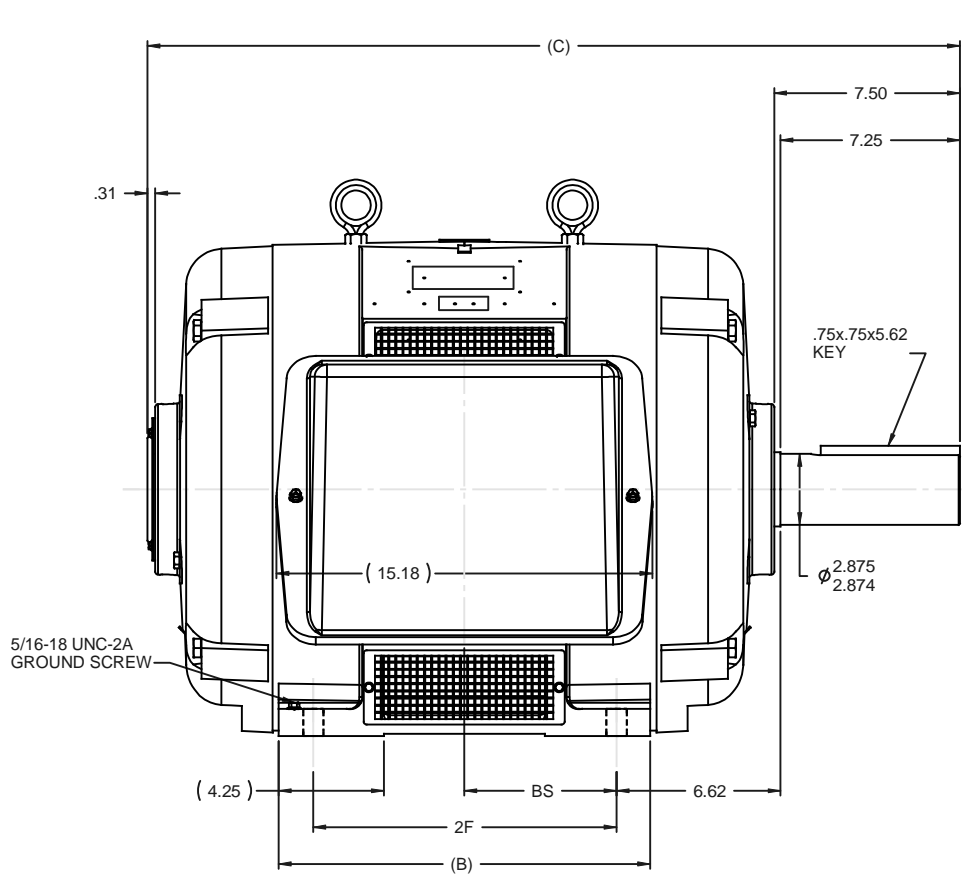
RegalRexnord

### Nameplate Specifications

Phase	3	Output HP	100 & 100 Hp
Output KW	75.0 & 75.0 kW	Voltage	230/460 & 190/380 V
Speed	1785 & 1480 rpm	Service Factor	1.15 & 1.0
Frame	404T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	226/113 & 276/138 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 Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.0545 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	32.81 in
Frame Length	15.50 in	Shaft Diameter	2.875 in
Shaft Extension	7.5 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	B-SS513937-1550	Connection Drawing	A-EE7308AA



- NOTES:  
 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 Ø2.50 NPT 2 HOLES CN 32922	DRS 12-07-2004	ML	x	±.1	APPR ML 02-11-1991
3	UPDATED C BOX GEOMETRY CN 28063	DRS 12-07-2004		xx	±.03	SCALE 1:5
2	ADDED SCREENS TO FRONT & REAR BRACKETS 4041416	DJK 06-18-1993		xxx	±.005	REF
1	NEW DRAWING CN 13005	DA 02-06-1991		xxxx	±.0005	FMF
NO	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH
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		SIZE	DRAWING NO
		DIST	WA	B	SS513937	REV
						4



### LOW VOLTAGE



### HIGH VOLTAGE



### VIEW OF TERMINAL END

DRAWING REVISION <b>K</b>	REVISION BY <b>AJW</b>	DATE <b>07-17-2015</b>
ECO <b>ECO-0081632</b>	APPROVED BY <b>T. VUE</b>	DATE <b>07-17-2015</b>
ECO DESCRIPTION <b>REV'D IEC MARKINGS PER IEC 60034-8</b>		
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DRAWN BY <b>LZ</b>	<b>Regal Beloit America, Inc.</b>	
DATE <b>01-12-1994</b>		
APPROVED BY <b>GK</b>	DESCRIPTION <b>CONN DIAGRAM-EXTERNAL</b> <b>3Ø-2/1 DELTA-12 LEADS</b>	
DATE <b>01-14-1994</b>		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE <b>A</b>	DRAWING NUMBER <b>EE7308AA</b>
		SHEET <b>1 OF 1</b>

**CERTIFICATION DATA SHEET**

**Model#:** 404TTDS6060 BP      **WINDING#:** T404450 NONE 1  
**CONN. DIAGRAM:** A-EE7308AA      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS513937-1550

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&100	75&75	1800	1785&1480	404T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	226/113&276/ 138	PWS(LV ONLY) & YDRUN	CONTINUOU S	F1	1.15/1.0	40	3300

FULL LOAD EFF: 95.4&95	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
			95	SQ CAGE IND RUN	69 / 34.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	1450 / 725	435 LB-FT 148	750 LB-FT 255	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	24.5 LB-FT^2	550 LB-FT^2	20 SEC.	2	1100 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	GRAY (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

\*  
N  
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S  
\*

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: 06/21/2017 07:57:26 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



404TTDS6060

Submittal

Data @ 460 V

Motor Load Data

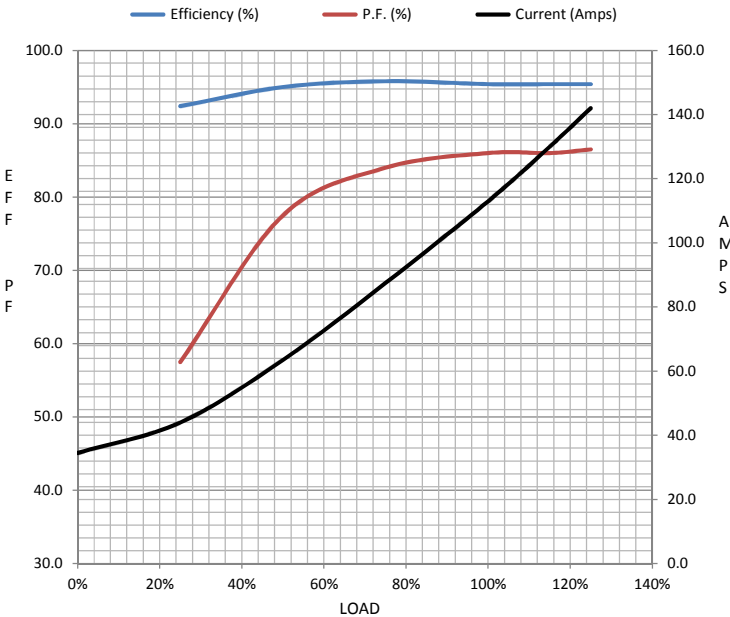
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	34.5	44.0	63.5	87.5	113	130	142	725
Torque (ft-lb)	0.00	73.0	147	220	294	338	369	435
RPM	1800	1796	1792	1788	1785	1,780	1778	0
Efficiency (%)		92.4	95.0	95.8	95.4	95.4	95.4	
P.F. (%)	7.0	57.5	77.5	84.0	86.0	86.0	86.5	29.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	725	650	425	113	34.5
Torque (ft-lb)	435	425	750	294	0.00

Information Block

HP	100.0			
Sync. RPM	1800			
Frame	404			
Enclosure	DP			
Construction	TDS			
Voltage	30/460#190/381V			
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 wk <sup>2</sup>	24.5 Lb-Ft <sup>2</sup>			
Ref Wdg	T404450 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS513937-1550			
Conn. Diag	A-EE7308AA			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0310	0.0210	0.2880	0.2540	7.5710



Speed -Torque Curve

