PRODUCT INFORMATION PACKET

Model No: 404TTDS16055
Catalog No: U903A
100 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 404T Frame, ODP
General Purpose Motors

Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E

marathon® Motors

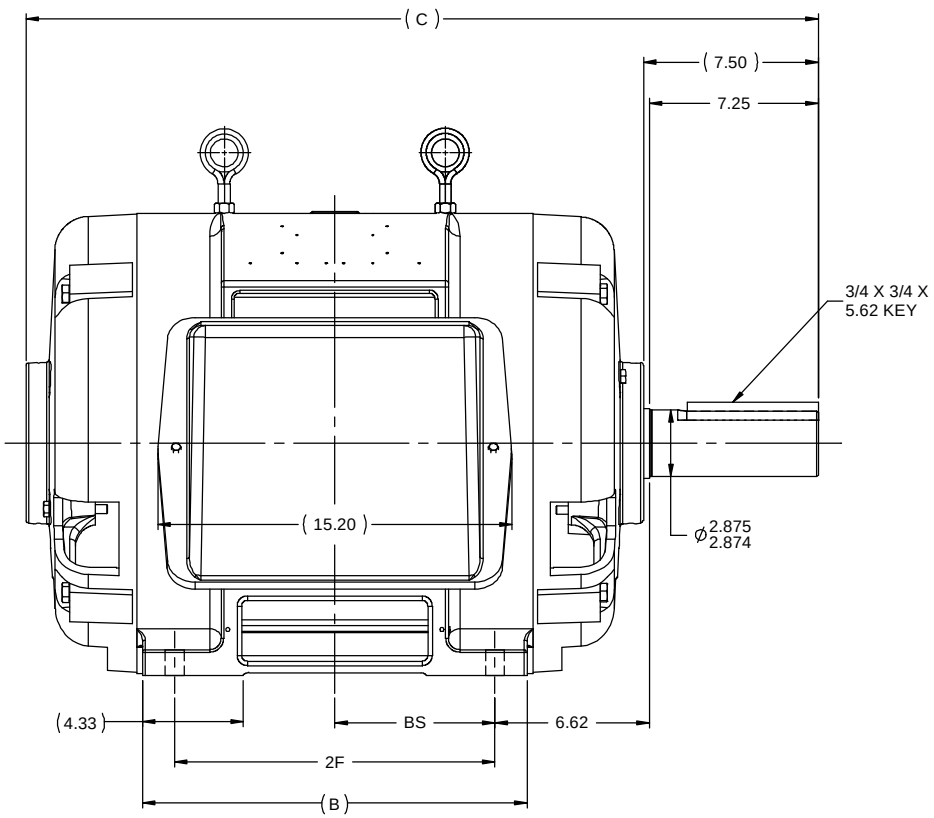
Nameplate Specifications

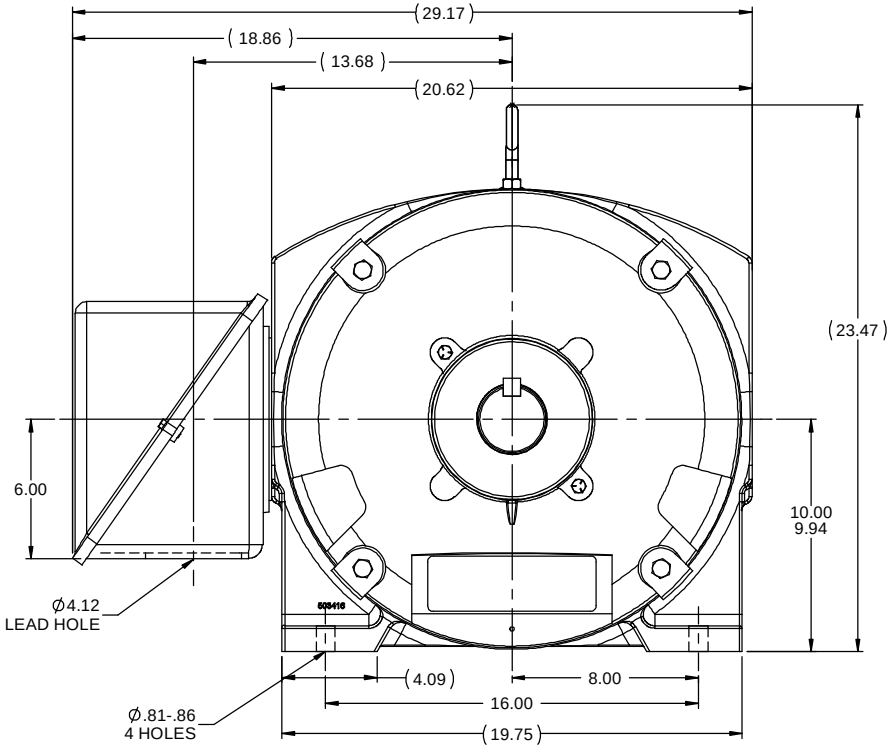
Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	575 V
Current	90.5 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	404T	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

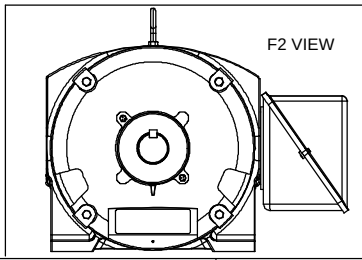
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.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	32.51 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-SS509599-1550	Connection Drawing	A-EE7300BH

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:10/12/2021







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		

NO	REVISION	BY & DATE	CHK
11	ADDED F2 VIEW	TJW 1/6/2010	CTO
10	REDRAWN IN AUTOCAD	TAT 6/29/2004	ML
9	REPLACED ONE EYEBOLT WITH TWO CN28063	BJW 2/10/2000	
8	UPDATED C'BOX GEOMETRY CN28063	TRB 2/10/2000	
7	REDRAWN ON CADD	TLB 2/24/1988	

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±7'30"

THIRD ANGLE PROJECTION

marathon electric

TITLE OUTLINE
400T FR. - DR.PR. - (STD0
MAT'L
FINISH
RFP
PREV
NETWORK FILE NAME SS509599

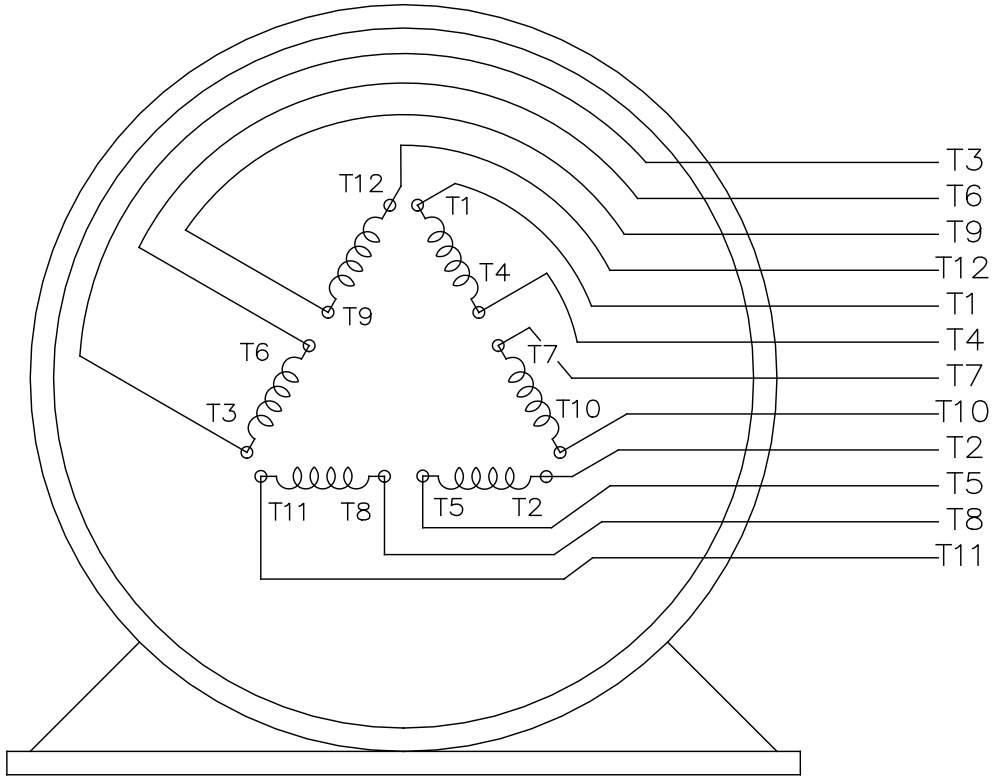
DRAWN	TJB 2/24/1988
CHK	JL 2/24/1988
APPR	ML 2/24/1988
SCALE	3:16
REF	
FMF	
PAGE	OF

SIZE B | DRAWING NO SS509599 | REV 11

10/10/2012 10:34:10 AM - Converted by Comnexus. You created this PDF from an application that is not licensed to print to novaPDF printer (http://www.novapdf.com)

Uncontrolled Copy

EE7300BH



VIEW OF TERMINAL END

T12(W4)
T1(U1)
T6(W2)
T7(U3)
LINE 1

T2(V1)
T4(U2)
T8(V3)
T10(U4)
LINE 2

T3(W1)
T5(V2)
T9(W3)
T11(V4)
LINE 3

				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	SCALE
D	CHANGED TO REGAL TITLE BLOCK ECO–0108299	WGJ 08/22/2016	EMH	.XXX	±.005	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
DIST LB
CAD FILE ee7300bh

SIZE	DRAWING NO.	PAGE OF	REV.
A	EE7300BH		C

Uncontrolled Copy

CERTIFICATION DATA SHEET

Model#:	404TTDS16055 AN	**WINDING#:**	T404450 NONE 2
CONN. DIAGRAM:	A-EE7300BH	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS509599-1550		

TYPICAL MOTOR PERFORMANCE DATA

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

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	90.5	PWS & YDRUN OR INV	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: 84	1/2 LOAD PF: 77.5	95	SQ CAGE INV RATED	27.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	580	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	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6316	BALL 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

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

* NOTES *

DATE: 06/21/2017 07:56:36 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Uncontrolled Copy

Data Sheet

Date: 6/29/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

404TTDS16055

Submittal

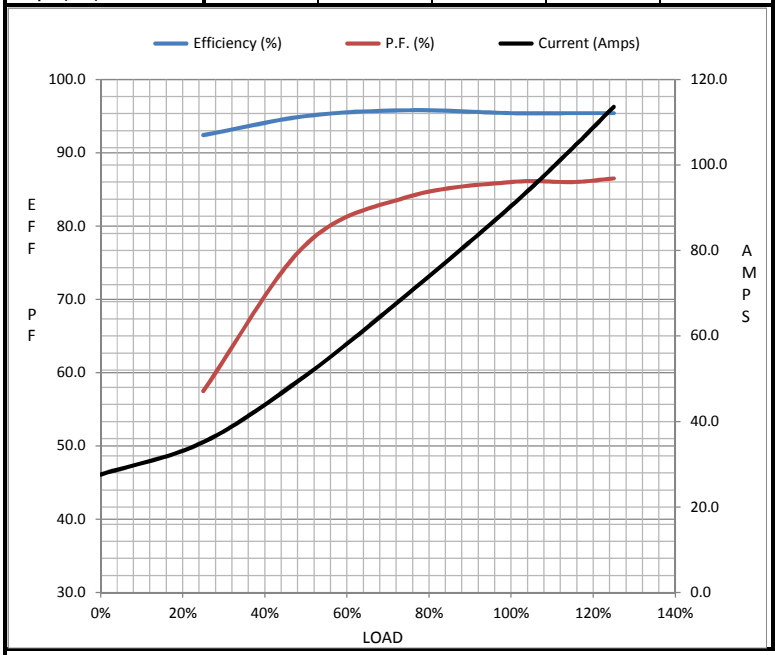
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	27.6	35.2	50.8	70.0	90.4	104	114	580	
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)	580	520	340	90.4	27.6
Torque (ft-lb)	435	425	750	294	0.00



Information Block

HP	100.0
Sync. RPM	1800
Frame	404
Enclosure	DP
Construction	TDS
Voltage	575 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	24.5 Lb-Ft²
Ref Wdg	T404450 NONE
Sound Pressure @ 1M	80 dBA
VFD Rating	VARIABLE 10:1
Outline Dwg	B-SS509599-1550
Conn. Diag	A-EE7300BH
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0490	0.0330	0.4500	0.3960	11.8300

Speed -Torque Curve