PRODUCT INFORMATION PACKET

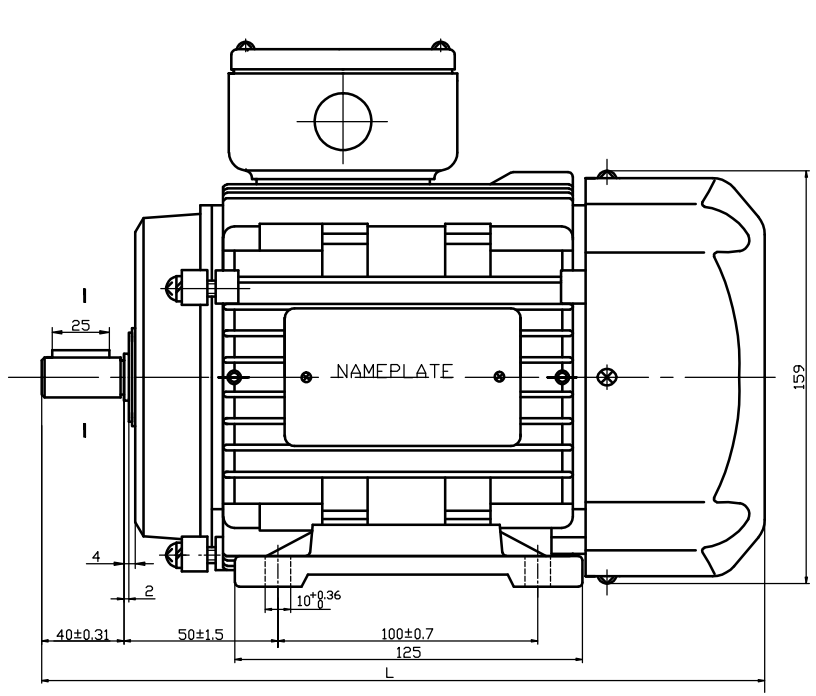
Model No: 080T17FH15327
Catalog No: R313A
1 HP General Purpose, 3 phase, 1800 RPM, 230/460 V, 80 Frame, TEFC
Aluminium TEFC Motors

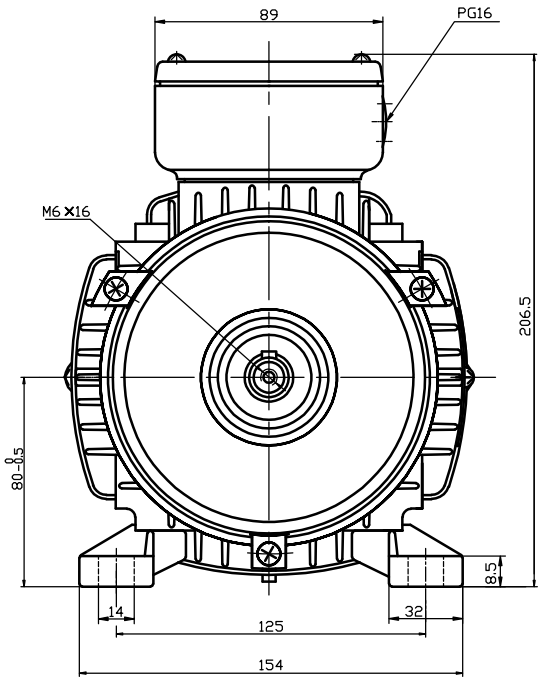
Nameplate Specifications

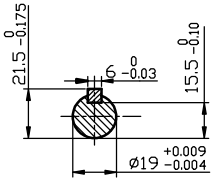
Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3.0/1.5 A	Speed	1740 rpm
Service Factor	1.15	Phase	3
Efficiency	85.5 %	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	J
Frame	80	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	Recognized	CSA	Y
CE	Y	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	IEC	Overall Length	11.88 in
Frame Length	6.10 in	Shaft Diameter	0.750 in
Shaft Extension	1.57 in	Assembly/Box Mounting	F3
Outline Drawing	039071-R313A	Connection Drawing	00546501ME







CAT LOG.	L
R312A	282
R412A	
R313A	302
R413A	
192241.00	302
192250.00	

NO.	REVISION	BY & DATE	CH'K'D.

TOLERANCES UNLESS OTHERWISE SPECIFIED

DEC.	INCHES	METRIC
.X	±.1	±2.5
.XX	±.03	±.76
.XXX	±.005	±.127
.XXXX	±.0005	±.0127
FRACTIONS	±1/64	
ANGLES	±1/2°	

REGAL BELOIT CORP.

DRAWN WX 16/12/01 | APPR. | R.F.P. | SCALE | REF. | FMF

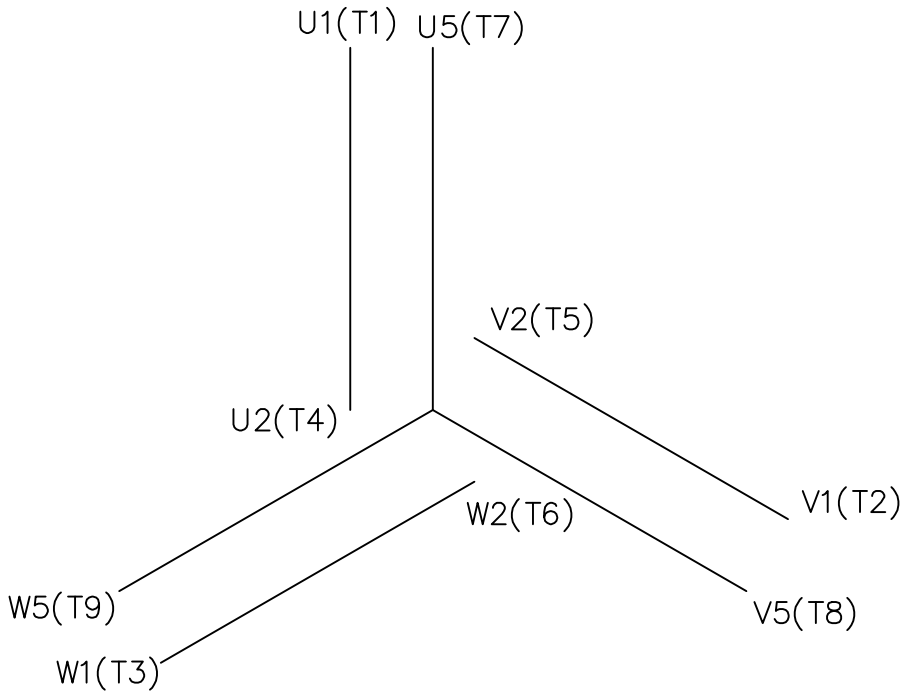
OUTLINE

MAT'L.

FINISH: SMC

REV.

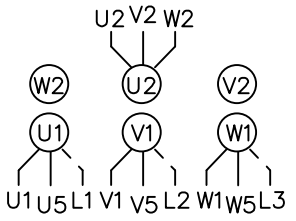
DRAWING NO. 039071



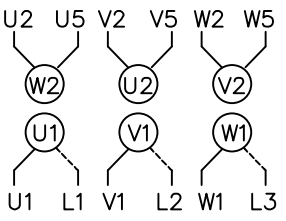
REF. DECAL (IEC) 080644
REF. DECAL (NEMA) 080446

IEC MARKINGS

LOW VOLTAGE



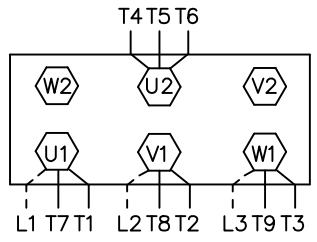
HIGH VOLTAGE



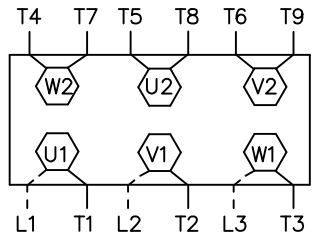
LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	U1,U5	V1,V5	W1,W5	---	U2,V2,W2	---
HIGH	U1	V1	W1	U2,U5	V2,V5	W2,W5

NEMA MARKINGS

LOW VOLTAGE



HIGH VOLTAGE



LINE VOLTAGE	L1	L2	L3	JOIN		
TERMINAL	U1	V1	W1	W2	U2	V2
LOW	T1, T7	T2, T8	T3, T9	---	T4,T5,T6	---
HIGH	T1	T2	T3	T4, T7	T5, T8	T6, T9

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

TITLE EXTERNAL WIRING DIAGRAM
3 PHASE – DUAL VOLTAGE – W/TERM BLOCK

MAT'L. IEC/NEMA MARKINGS

FINISH

CAD FILE 00546501ME

RFP 02-17-2010

DIST

DRAWN JGO 3/10/04
CHK SB 02-17-2010
APPD MJS 02-17-2010
SCALE 1=1
REF
FMF
PREV

SIZE A

DRAWING NO. 005465ME-01

REV.

2/17/2010 11:05:39 AM

CERTIFICATION DATA SHEET

Model#:	80T17FH15327 A	**WINDING#:**	QT8047 FR 3
CONN. DIAGRAM:	00546501ME	**ASSEMBLY:**	F3
OUTLINE:	039071		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1&1	.75&.75	1800	1740&1420	D80	TEFC	J	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/400	3.0/1.5&3.4/1.7	ACROSS THE LINE	CONTINUOUS	F5	1.15/1.15	40	3300

FULL LOAD EFF: 85.5&82.5	3/4 LOAD EFF: 84.9	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 72&73	3/4 LOAD PF: 68	1/2 LOAD PF: 55.6	0	SQ CAGE IND RUN	1.7 / .9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	19.8 / 9.9	8.5 LB-FT 283	10 LB-FT 333	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.63 LB-FT^2	0 LB-FT^2	0 SEC.	0	0 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 6204	BALL 6204	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	ALUMINUM

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: 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

* NOTES *

DATE: 06/28/2017 03:53:02 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

MARATHON ELECTRIC CORPORATION

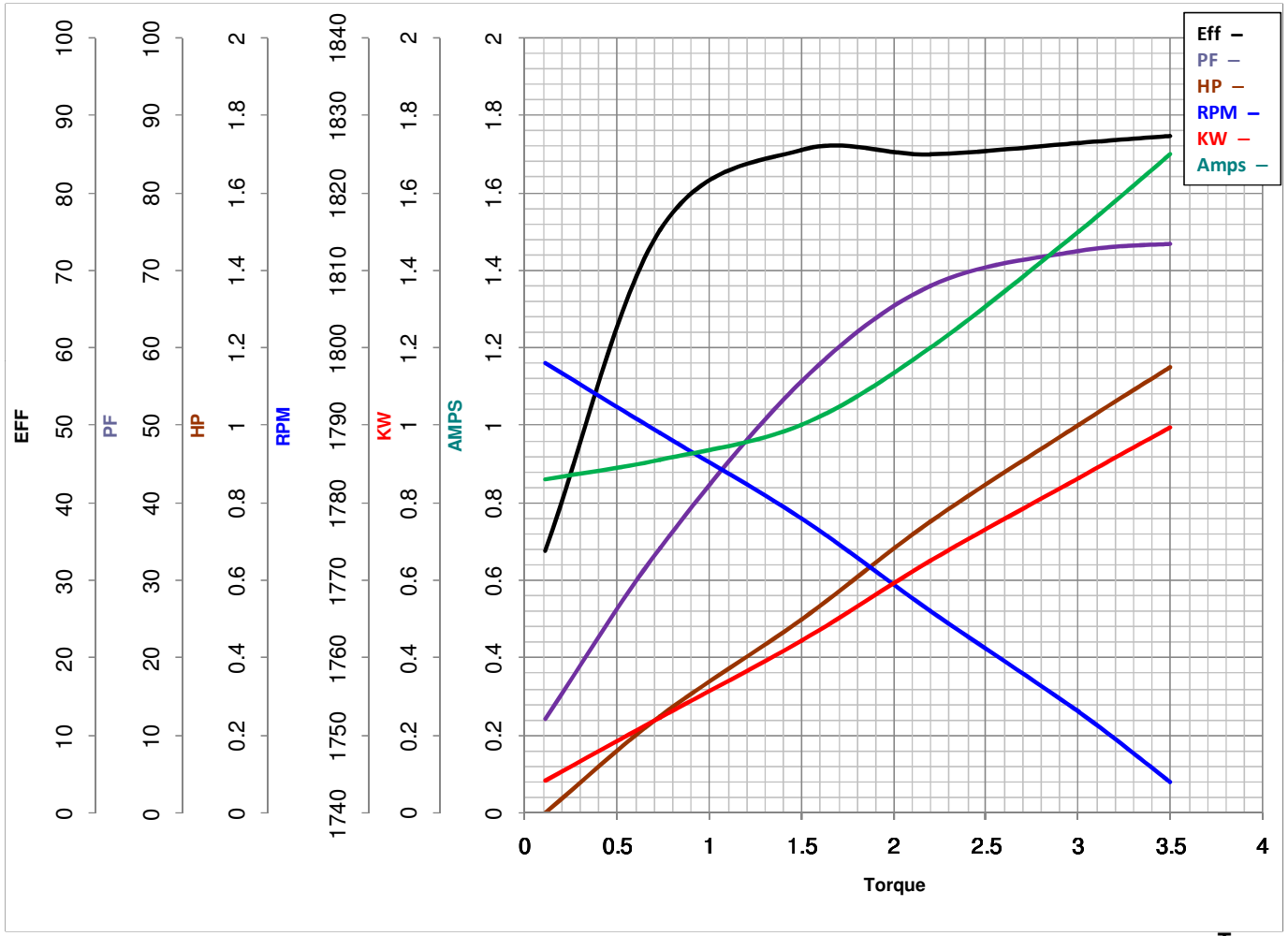
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at 460 **Volts** **HP** 1&1 **PHASE** 3
60 **HZ**
1 **HP** **VOLTS** 230/460&200/400

Model No 80T17FH15327

Catalog No R313A **HZ** 60&50 **RPM** 1740&1420



Torque in Lb.Ft

FL TORQUE	3	**Lb.Ft**	**FL AMPS**	3.0/1.5	
BD TORQUE	10.0	**Lb.Ft**	**PU TORQUE**	7.7	**Lb.Ft**
LR TORQUE	8.5	**Lb.Ft**	**LR AMPS**	9.9	
WINDING	QT8047-			**Date**	