PRODUCT INFORMATION PACKET

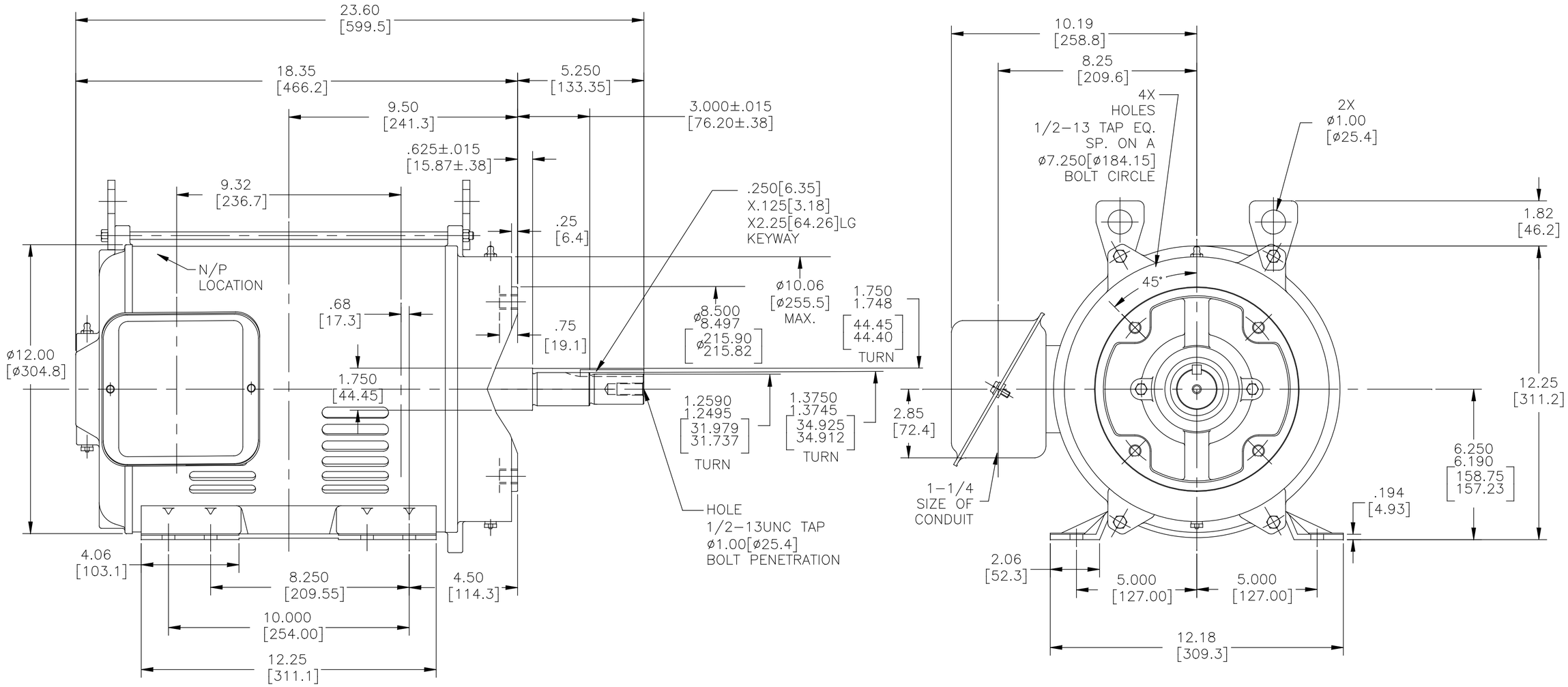
Model No: 254TTDR16031
Catalog No: E114B
Close-Coupled Pump Motor, 15 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM, 254JM Frame, DP

Nameplate Specifications

Phase	3	Output HP	15 & 15 Hp
Output KW	11.2 & 11.2 kW	Voltage	230/460 & 200/400 V
Speed	1768 & rpm	Service Factor	1.15 & 1.15
Frame	254JM	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	38/18.9 & 44/22.1 A	Power Factor	79.9
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.515 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	23.60 in
Frame Length	10.63 in	Shaft Diameter	1.375 in
Shaft Extension	5.28 in	Assembly/Box Mounting	F1 Only
Outline Drawing	610-0019-1300	Connection Drawing	A-EE7308



NOTES:

1. 5.250[133.35], .625[15.88] & 3.000[76.20] DIMENSIONS ARE MEASURED WITH SHAFT PULLED BY HAND TO THE LIMIT OF END PLAY.
2. 7.250[184.15] DIMENSION IS TO THE CENTERLINE OF THE BOLT HOLES WITHIN .015[.38].
3. SHAFT ENDPLAY SHALL NOT EXCEED THE BEARING INTERNAL AXIAL MOVEMENT. BEARING MOUNTING FITS SHALL BE AS RECOMMENDED BY THE BEARING MANUFACTURER.
4. TWO BOTTOM 1/2–13 HOLES WILL BE AN EQUAL DISTANCE FORM THE PLANE OF THE BOTTOM OF THE FEET WITHIN .003[.08].
5. MOTOR CAN BE CONVERTED TO HAVE AN F–2 CONDUIT BOX MOUNTING.

DRAWING REVISION	REVISION BY	DATE
A	M.RODARTE	10–17–2016
ECO	APPROVED BY	DATE
0107954	M.RODARTE	10–17–2016
ECO DESCRIPTION		
NEW		

TOLERANCES UNLESS OTHERWISE SPECIFIED

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.02	[±0.51]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES .003/.015 [.076/.381]
CORNER FILLETS .02 [.51]
MACHINED SURFACES 125/ INCH 3.2/ mm
mm SHOWN IN [BRACKETS]

DRAWN BY:	G. RODRIGUEZ
DATE:	05–25–2016
APPROVED BY:	D. JAMORA
DATE:	05–25–2016
REFERENCE	.
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION	MODEL–IHP OUTLINE
MATERIAL	.
PROCESS/FINISH	.
SIZE	C
DWG NO	610–0019
SHEET	1

EE7308

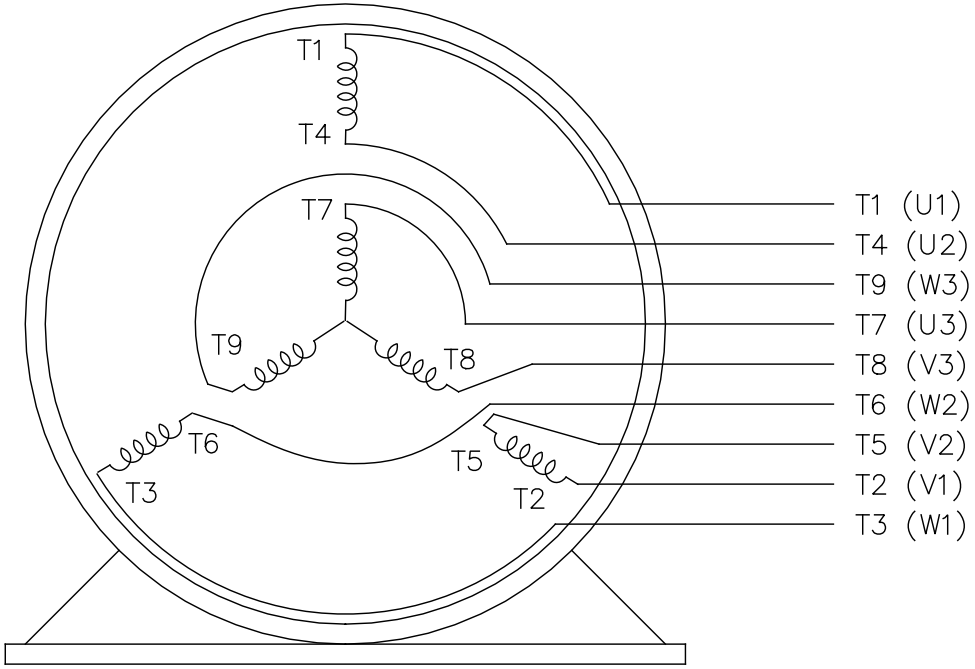
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

NO.	REVISION	BY & DATE	CHK
5	CHG TO REGAL LOGO	SL 09/10/2015	AB
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
1	REDRAWN	RM 11/20/1990	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.
FINISH
CAD FILE ee7308
RFP
DIST WP

DRAWN RM	11/20/1990
CHK ML	11/21/1990
APPD SAS	04/24/2003
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7308 | PAGE OF | REV. 5

CERTIFICATION DATA SHEET

Model#:	254TTDR16031 AA	**WINDING#:**	BGR4T01 NONE 3
CONN. DIAGRAM:	80022801	**ASSEMBLY:**	F1 ONLY
OUTLINE:	610-0019		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15&15	11.2&11.2	1800	1768	254JM	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/400	38/18.9&44/22.1	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40	3300

FULL LOAD EFF: 93	3/4 LOAD EFF: 93.2	1/2 LOAD EFF: 92.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 79.9	3/4 LOAD PF: 75.2	1/2 LOAD PF: 66	91.7	SQ CAGE IND RUN	15.4 / 7.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	228 / 114	84.1 LB-FT 189	117 LB-FT 263	21

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	2 LB-FT^2	- LB-FT^2	20 SEC.	2	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE-NO FLANGE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6309	BALL 6207	POLYREX EM	JM	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

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: 06/23/2017 03:25:30 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

254TTDR16031

Submittal

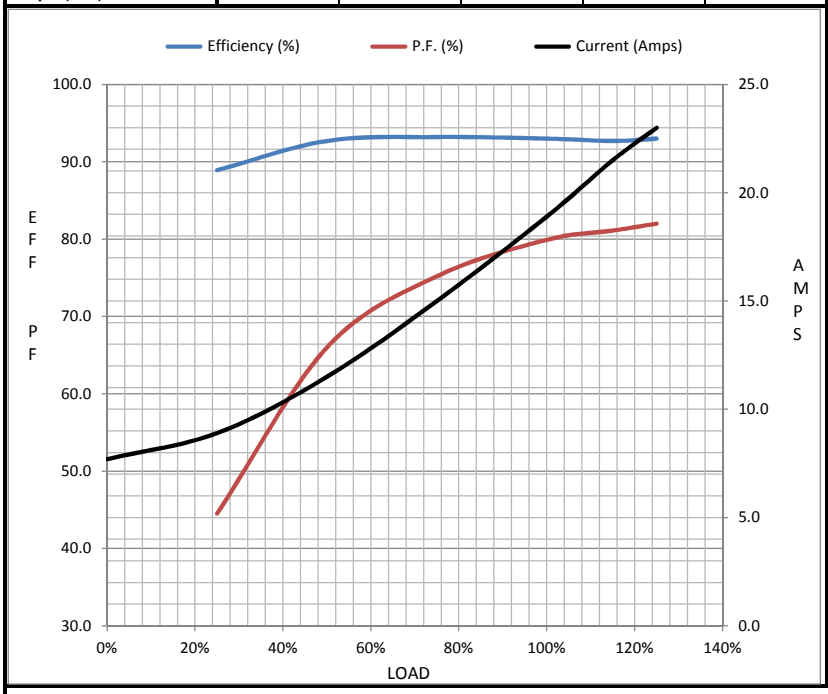
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.7	8.9	11.5	15.0	18.9	21.5	23.0	114	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.5	51.0	60.0	84.1	
RPM	1800	1793	1785	1777	1768	1,762	1740	0	
Efficiency (%)		88.9	92.7	93.2	93.0	92.7	93.0		
P.F. (%)	0.0	44.5	66.0	75.2	79.9	81.1	82.0	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	884	1656	1768	1800
Current (Amps)	114	103	68.4	18.9	7.7
Torque (ft-lb)	84.1	71.5	117	44.5	0.00



Information Block

HP	15.0
Sync. RPM	1800
Frame	254
Enclosure	DP
Construction	TDR
Voltage	230/460#200/40(V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	21 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	2.00 Lb-Ft²
Ref Wdg	BGR4T01 NONE
Sound Pressure @ 1M	999 dBA
VFD Rating	NONE
Outline Dwg	610-0019
Conn. Diag	80022801

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve