PRODUCT INFORMATION PACKET

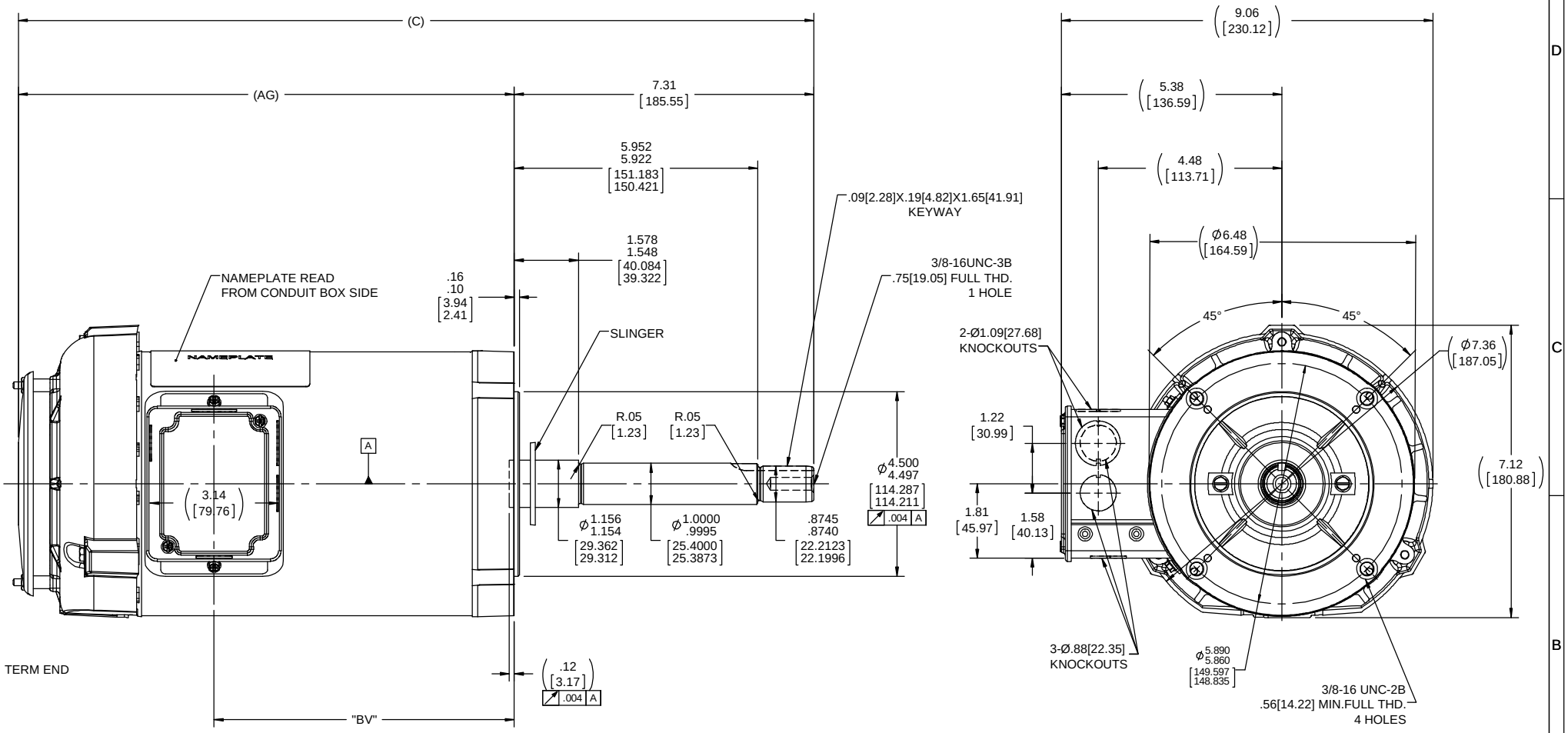
Model No: 143TTFR16043
Catalog No: GT5401
1 HP Close-Coupled Pump Motor, 3 phase, 1800 RPM, 230/460 V, 143JPV Frame, TEFC
JP Motors

Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60/50 Hz	Voltage	230/460 V
Current	3.3/1.7 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	85.5 %	Power Factor	68
Duty	Continous	Insulation Class	F
Design Code	B	KVA Code	P
Frame	143JPV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	11.8 Ohms	Mounting	Round
Motor Orientation	Horizontal Or Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JP	Overall Length	19.85 in
Frame Length	8.56 in	Shaft Diameter	0.875 in
Shaft Extension	7.31 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	B-100659-856	Connection Drawing	A-EE7308



NOTE:
CONDUIT BOX CAN BE ROTATED 180°.

DASH NO.	"C"	"AG"	"BV"
656	17.90[454.66]	10.59[268.98]	5.82[147.82]
706	18.40[467.36]	11.09[281.68]	6.32[160.52]
756	18.90[480.06]	11.59[294.38]	6.82[173.22]
806	19.40[492.76]	12.09[307.08]	7.32[185.92]
856	19.90[505.46]	12.59[319.78]	7.82[198.62]
906	20.40[518.16]	13.09[332.48]	8.32[211.32]
956	20.90[530.86]	13.59[345.18]	8.82[224.02]

DRAWING REVISION: B	REVISION BY: A. KEETHA	DATE: 01-29-2018
ECO: ECO-0143026	APPROVED BY: PST	DATE: 04/11/2018

ECO DESCRIPTION: OUTLINE CONVERSION PROJECT

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.02	[±0.51]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY	RM
DATE	10-23-1992
APPROVED BY	MS
DATE	10-27-1992
REFERENCE	100659
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
140 FRAME-1Ø-BB-C'FACE-TEFC

MATERIAL | PROCESS/FINISH

SIZE: C | DRAWING NUMBER: 100659 | SHEET: 1 OF1

EE7308

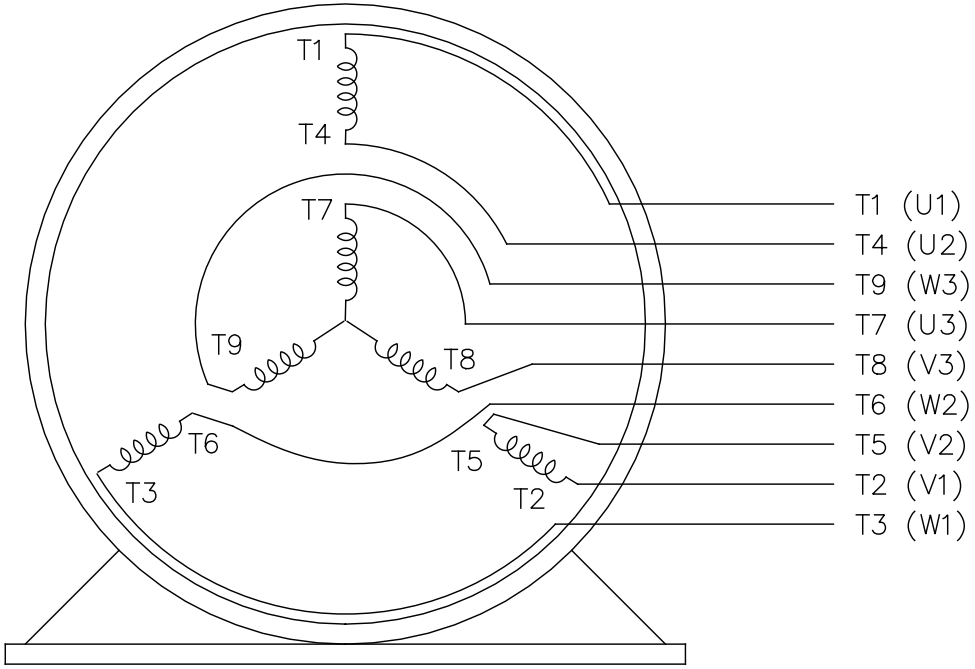
THREE PHASE
DUAL VOLTAGE MOTOR

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

ANG	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#:	143TTFR16043 AA	**WINDING#:**	ZT4257 FR 3
CONN. DIAGRAM:	A-EE7308	**ASSEMBLY:**	F1 ONLY
OUTLINE:	B-100659-856		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1&3/4	.75&.56	1800	1765&1465	143JPV	TEFC	P	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	3.3/1.65&3.1/1.55	LINE OR INVERTER	CONTINUOUS	F3	1.15/1.0	40	3300

FULL LOAD EFF: 85.5&84	3/4 LOAD EFF: 84	1/2 LOAD EFF: 81.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 68&66	3/4 LOAD PF: 59.5	1/2 LOAD PF: 46.5	82.5	SQ CAGE INV RATED	2.3 / 1.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	34 / 17	13.7 LB-FT 457	16.8 LB-FT 560	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.12 LB-FT^2	0 LB-FT^2	15 SEC.	2	48 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL OR SHAFT DOWN	FALSE	NONE	TRUE	NONE	BLUE (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	JP	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6206	6203						

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: CONSTANT 2:1 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

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DATE: 06/23/2017 12:07:15 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

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

marathon electric

143TTFR16043

Submittal

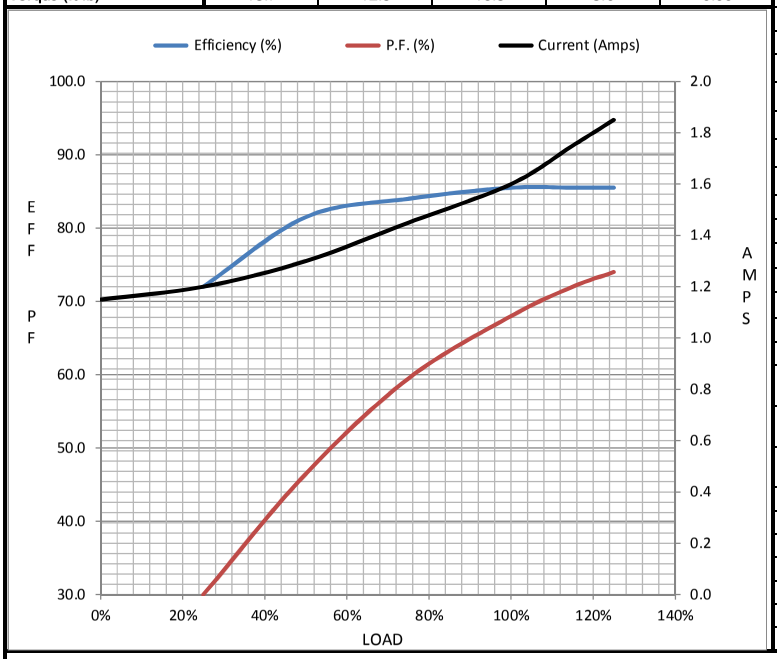
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.15	1.20	1.30	1.45	1.60	1.75	1.85	17.0	
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.5	3.8	13.7	
RPM	1800	1790	1785	1775	1765	1,760	1755	0	
Efficiency (%)		72.0	81.5	84.0	85.5	85.5	85.5		
P.F. (%)	7.5	30.0	46.5	59.5	68.0	72.0	74.0	69.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1270	1765	1800
Current (Amps)	17.0	16.0	11.0	1.60	1.15
Torque (ft-lb)	13.7	12.5	16.8	3.0	0.00



Information Block

HP	1.0
Sync. RPM	1800
Frame	143
Enclosure	TEFC
Construction	TFR
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	A
LR Code letter	P
Service Factor	1.15
Temp Rise @ FL	30 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.12 Lb-Ft²
Ref Wdg	ZT4257 FR
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 2:1
Outline Dwg	B-100659-856
Conn. Diag	A-EE7308
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
2.4250	1.6020	3.1050	2.7720	75.8630

Speed -Torque Curve