

PRODUCT INFORMATION PACKET

Model No: 256TTDR16031

Catalog No: U219A

Close-Coupled Pump Motor, 20 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 & 1500 RPM,
256JP Frame, DP



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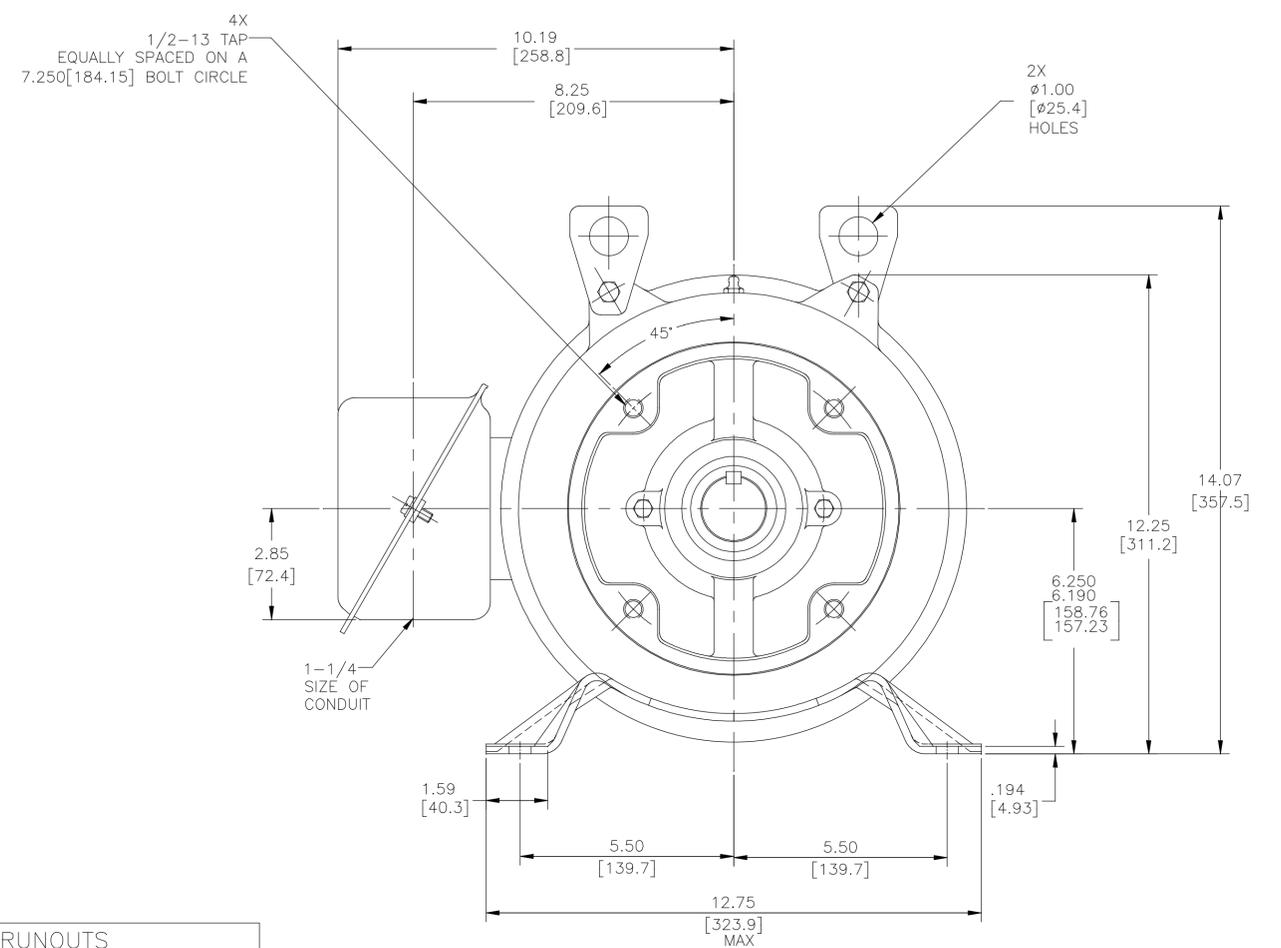
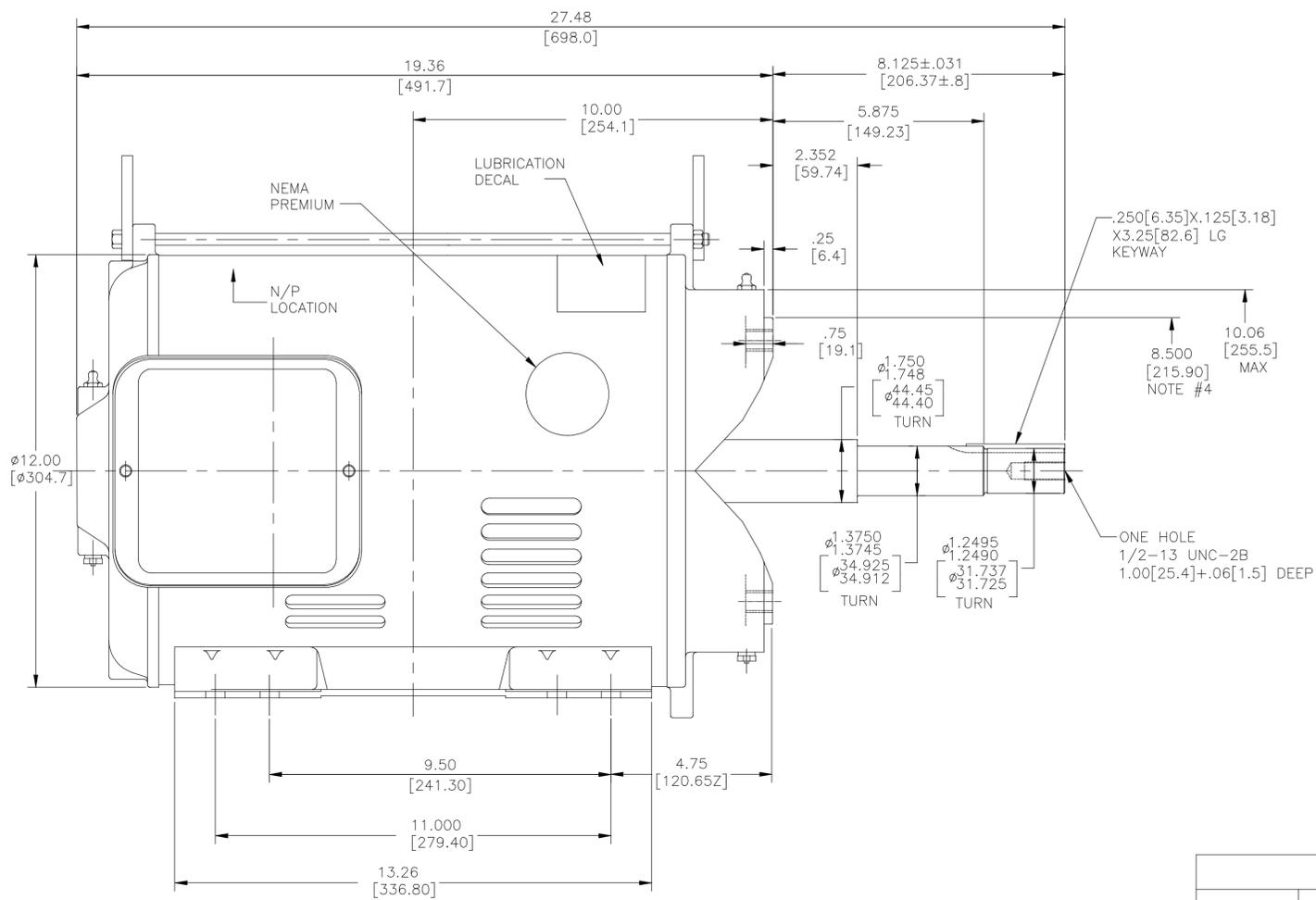
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Nameplate Specifications

Phase	3	Output HP	20 & 20 Hp
Output KW	14.9 & 14.9 kW	Voltage	230/460 & 200/400 V
Speed	1770 & 1450 rpm	Service Factor	1.15 & 1.15
Frame	256JP	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93.6 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	49/24.5 & 57/28.5 A	Power Factor	80.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
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	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JP	Overall Length	27.48 in
Frame Length	14.00 in	Shaft Diameter	1.375 in
Shaft Extension	8.13 in	Assembly/Box Mounting	F1 Only
Outline Drawing	610-0024-1400	Connection Drawing	80022802



RUNOUTS		
SHAFT	FACE	MOUNTING RABBET
0.002 [0.05]	0.004 [0.10]	0.004 [0.10]

NOTES:

- #1- 8.125[206.37], 2.375[60.33], & 5.875[149.23] DIM'S ARE MEASURED WITH SHAFT PULLED BY HAND TO THE LIMIT OF END PLAY.
- #2- 7.250[184.15] DIM IS TO THE CENTERLINE OF THE BOLT HOLES WITHIN .015[.38] FOR 250 FRAME & .025[.64] FOR 280 FRAMES.
- #3- SHAFT ENDPLAY SHALL NOT EXCEED THE BRG INTERNAL AXIAL MOVEMENT. BEARING MOUNTING FITS SHALL BE AS RECOMMENDED BY THE BEARING MANUFACTURER.
- #4- 8.500[215.9] DIM LIMITS -.003[.08] 250 FRAMES/-.005[.13] FOR 280 FRAMES.
- #5- 2.375[60.33]/5.875[149.23] EXT LIMITS ±.015[.38] S250 FRAME/±.020[.51] FOR S280 FRAMES.
- #6- TWO BOTTOM 1/2-13 HOLES WILL BE AN EQUAL DISTANCE FROM THE PLANE OF THE BOTTOM OF THE FEET WITHIN .003[.08].

DRAWING REVISION C	REVISION BY NK	DATE 9/12/18	TOLERANCES UNLESS OTHERWISE SPECIFIED DEC INCH mm ANGLE X ±0.1 ±2.5 ±0.5° XX ±0.02 ±0.511 XXX ±0.005 ±0.1271	DRAWN BY C. RODRIGUEZ	Regal Beloit America, Inc. DESCRIPTION MODEL -IHP
ECO ECO-0152545	APPROVED BY RG	DATE 9/12/18	REMOVE BURRS & BREAK SHARP EDGES .003/.015 [0.076/.381]	DATE 05-23-2017	
ECO DESCRIPTION DECAL ADDED			CORNER FILLETS .02 [511]	APPROVED BY D.JAMORA	MATERIAL -
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY FEDERAL, CORPORATE OR OTHER FORM REVISIONS IF IN VIOLATION BY RECEIVING IT TO AGREE THAT IT AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			MACHINED SURFACES INCH/mm mm SHOWN IN [BRACKETS]	DATE 05-23-2017	PROCESS/FINISH -
			THIRD ANGLE PROJECTION	SIZE DWG NO D 610-0024	SHEET 1

CERTIFICATION DATA SHEET

**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CONN. DIAGRAM: 80022802

MODEL #: 256TTDR16031 AA

OUTLINE: 610-0024-1400

MOUNTING: F1 ONLY

WINDING #: BHR4T01 3 A

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&20	14.9&14.9	1800	1770&1450	256JP	DP	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&200/400	49/24.5&57/28.5	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40

FULL LOAD EFF:	93.6&92.4	3/4 LOAD EFF:	93.4	1/2 LOAD EFF:	92.5	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	80.5&82	3/4 LOAD PF:	77.6	1/2 LOAD PF:	67.3	91.7		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.5 LB-FT	280 / 140	115 LB-FT 193 %	160 LB-FT 269 %	35

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 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
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

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

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

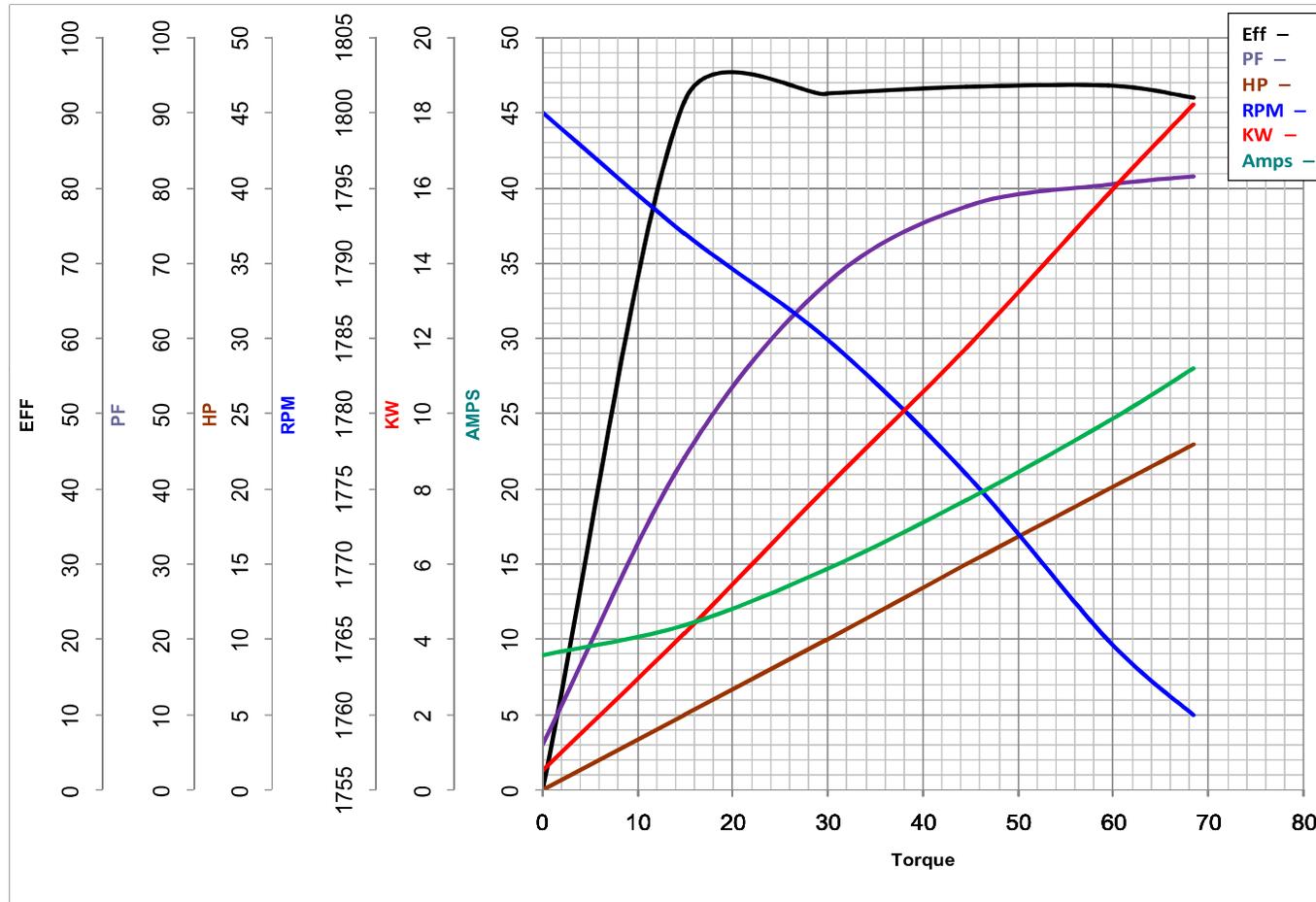
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N
O
T
E
S

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

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer _____ Curve at 460 Volts HP 20&20 PHASE 3
 Model No 256TTDR16031 60 HZ
20 HP VOLTS 230/460&200/400
 Catalog No U219A HZ 60&50 RPM 1770&1450



Torque in Lb.Ft

FL TORQUE	<u>59.5</u>	Lb.Ft	FL AMPS	<u>49/24.5</u>
BD TORQUE	<u>160.0</u>	Lb.Ft	PU TORQUE	<u>113.0</u> Lb.Ft
LR TORQUE	<u>115</u>	Lb.Ft	LR AMPS	<u>140</u>
WINDING	BHR4T01-3		Date	11/14/2018

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 256TTDR16031

(Model No. may contain prefix and/or suffix characters)

Catalog No : U219A

Rework No : N/A

Directives :

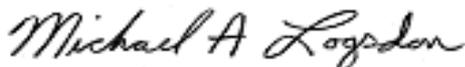
Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

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