

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256TTFNA14071

Catalog No: Y1611

Fire Pump Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 256T Frame,
TEFC



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RegalRexnord

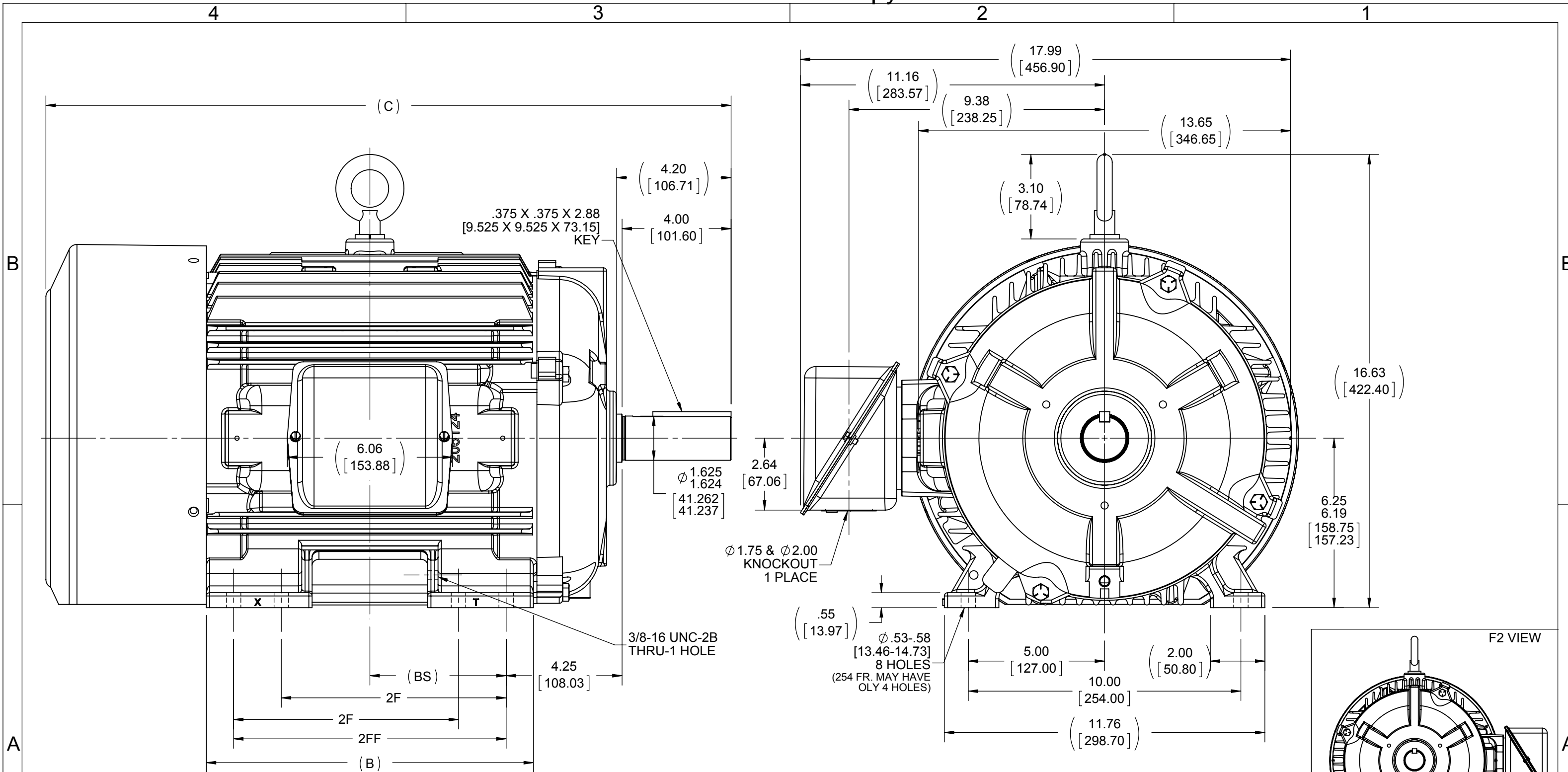


Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	1765 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	50/25 & 45/22.5 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6210
UL	Listed	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.468 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	25.27 in
Frame Length	12.25 in	Shaft Diameter	1.625 in
Shaft Extension	4.20 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS203015-1225	Connection Drawing	EE7358



- NOTES:
 1. BOX CAN BE ROTATED ON ITS AXIS.
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

DASH	FRAME	B	C	2F	2FF	BS
1050	254T	10.25 [260.35]	23.52 [597.41]	-	8.25 [209.55]	4.12 [104.65]
1225	256T	12.00 [304.80]	25.27 [641.86]	8.25 [209.55]	10.00 [254.00]	5.00 [127.00]

DRAWING REVISION F	REVISION BY DF	DATE 7-7-14
ECO ECO-0054340	APPROVED BY	DATE
ECO DESCRIPTION NMR-0060600, MU117685		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

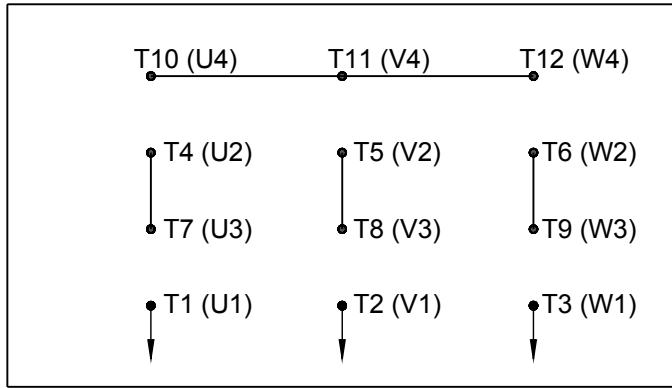
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381]
 CORNER FILLETS: .02 [51]
 MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]

DRAWN BY D.FROEHLICH	DATE 7-2-14
APPROVED BY TB	DATE 7-7-14
REFERENCE	THIRD ANGLE PROJECTION

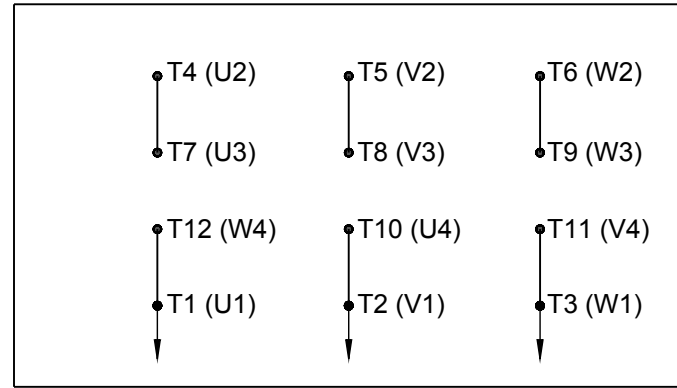
REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 250T FR. - BB - TS - STD.	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS203015
SHEET 1 OF 1	

HIGH VOLTAGE

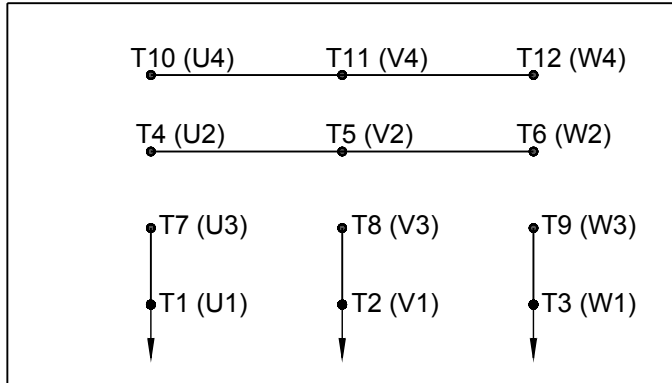
WYE START



DELTA RUN

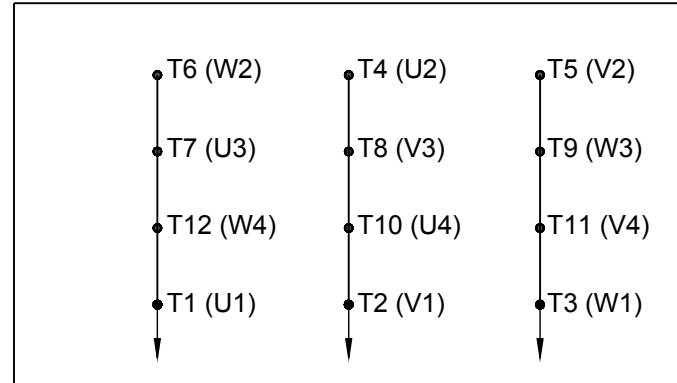


WYE START



LOW VOLTAGE

DELTA RUN



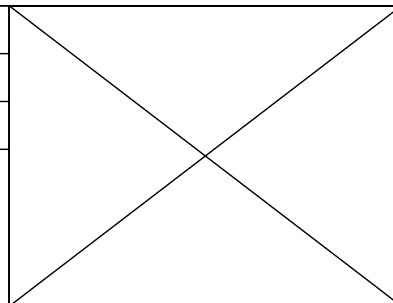
4/2 CKTY \triangle

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016
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ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016
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ECO DESCRIPTION
ADDED IEC MARKINGS

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DRAWN BY BLR

DATE 03-09-1998

APPROVED BY GK

DATE 03-23-1998

REFERENCE

THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
CONN DIAGRAM-EXTERNAL
12 LEAD - DUAL VOLT. - WYE START - DELTA RUN

MATERIAL	PROCESS/FINISH
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SIZE A	DRAWING NUMBER EE7358	SHEET 1 OF 1
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P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
 ORDER #: _____ REFERENCE MODEL #: 256TTFNA14071
 CONN. DIAGRAM: EE7358 CAT #: Y1611
 OUTLINE: B-SS203015-1225 CUSTOMER PART #: _____
 WINDING: K2564181 NONE 12 MOUNTING: F1/F2 CAPABLE
 SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
20	14.9	1800	1765	256T	TEFC	TFN	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	50/25&45/22.5	WS(LV ONLY) & YDRU	CONT	F	1.15	40	3300

F.L. EFF	91.0	3/4 LD EFF	91.0	1/2 LD EFF	90.2	GTD EFF	89.5	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	82.0	3/4 LD PF	79.5	1/2 LD PF	70.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
59.5 LB-FT	140	108 LB-FT 182%	145 LB-FT 244%	70

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	2.70 LB-FT²	125 LB-FT²	25 SEC.	0	380 LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	RED (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL	BALL						
6309	6210						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.301	0.223	1.017	1.416	26.128	0.150	ODE

* N O T E S *	INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE					
	ENCODER: NONE NONE NONE					
	BRAKE: NONE NONE					
	FT-LB: NA VOLTAGE: NONE					
	UL: NONE					

PREPARED BY: FAREEDA DUDEKULA
 DATE: 9/17/2018

Data Sheet

Date: 12/10/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



256TTFNA14071

Submittal

Data @ 460 V

Motor Load Data

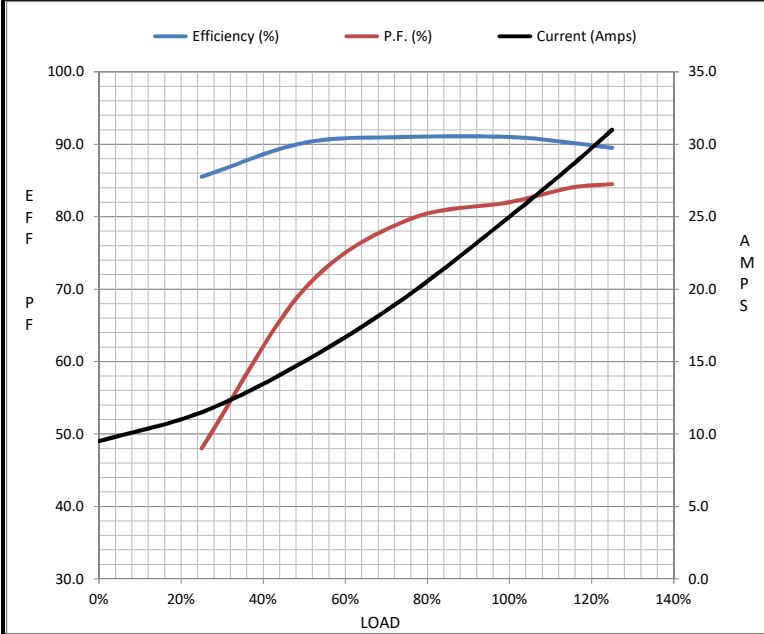
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	9.5	11.5	15.0	19.5	25.0	28.5	31.0	140
Torque (ft-lb)	0.00	14.5	29.5	44.5	59.5	68.5	75.0	108
RPM	1800	1790	1785	1775	1765	1,760	1755	0
Efficiency (%)		85.5	90.2	91.0	91.0	90.2	89.5	
P.F. (%)	7.0	48.0	70.0	79.5	82.0	84.0	84.5	41.5

Motor Speed Data

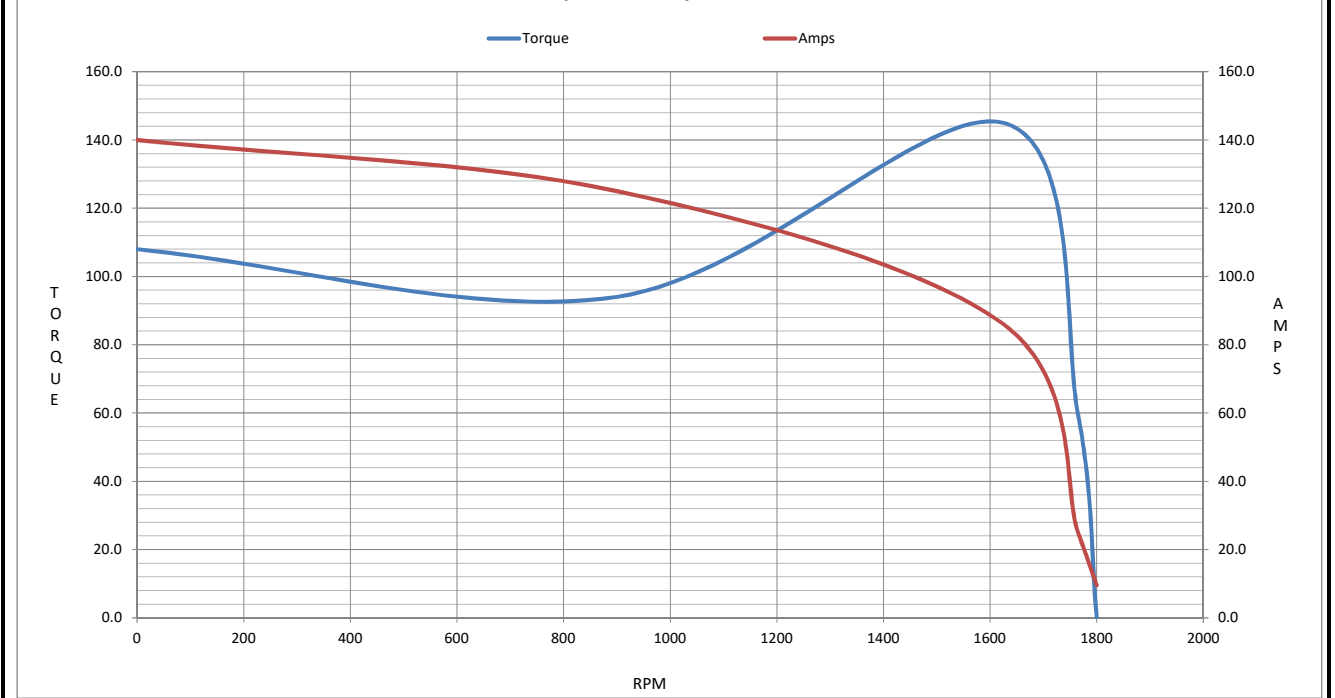
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1625	1765	1800
Current (Amps)	140	125	86.0	25.0	9.5
Torque (ft-lb)	108	94.0	145	59.5	0.00

Information Block

HP	20.0			
Sync. RPM	1800			
Frame	256			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	2.70 Lb-Ft ²			
Ref Wdg	K2564181 NONE			
Sound Pressure @ 1M	68 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS203015-1225			
Conn. Diag	EE7358			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3010	0.2230	1.0170	1.4160	26.1280



Speed - Torque Curve



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 : 256TTFNA14071

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

Catalog No : Y1611

Rework No : N/A

Directives :

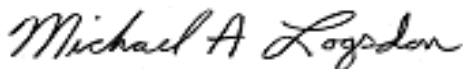
Low Voltage Directive 2014/35/EU

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

CE 22