

PRODUCT INFORMATION PACKET

Model No: 184TTDW16310

Catalog No: E163B

Close-Coupled Pump Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
184JMV Frame, DP



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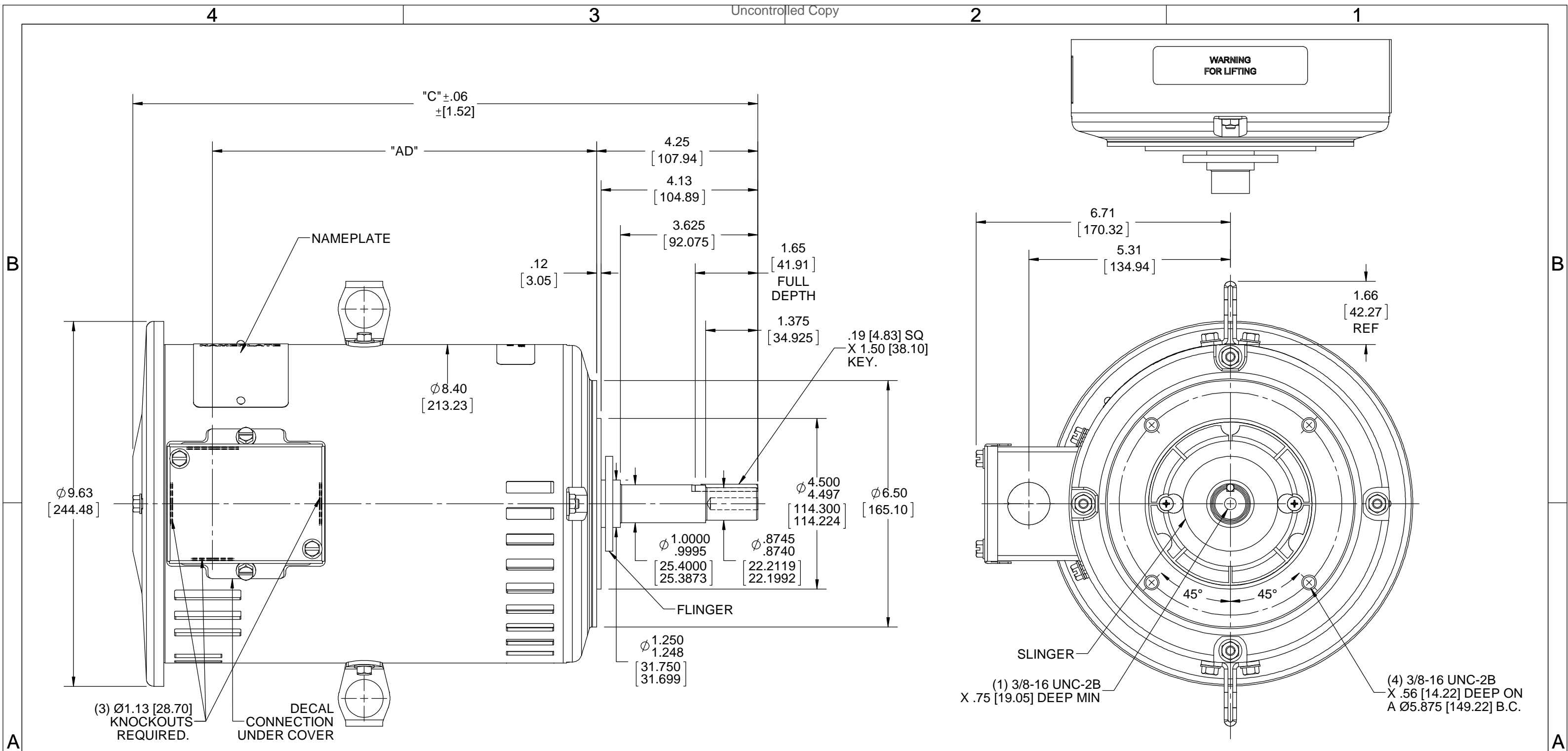
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Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	3490 & 2905 rpm	Service Factor	1.15 & 1.15
Frame	184JMV	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	88.5 & 87.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	17.8/8.9 & 15/7.5 A	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	J
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Clockwise
Resistance Main	0 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	17.12 in
Frame Length	10.50 in	Shaft Diameter	0.875 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	035568-1050	Connection Drawing	005010.01



NOTE:-
1) GASKET THROUGHOUT.

MAXIMUM FACE RUNOUT TO BE .004 [0.102] T.I.R
MAXIMUM PILOT ECCENTRICITY TO BE .004 [0.102] T.I.R
PERMISSIBLE SHAFT RUNOUT TO BE .004 [0.102] T.I.R.

DASH NO.	"C"	"AD"
850	14.49 [368.05]	8.13 [206.50]
900	14.99 [380.75]	8.63 [219.20]
950	15.49 [396.45]	9.13 [231.90]
1000	15.99 [406.15]	9.63 [244.60]
1050	16.49 [418.85]	10.13 [257.30]
1100	16.99 [421.55]	10.63 [270.00]
1150	17.49 [444.25]	11.13 [282.70]

DRAWING REVISION	REVISION BY	DATE
E	A SUPPANAVAR	01/30/2018
ECO	APPROVED BY	DATE
ECO-0144874	ST	05/14/2018

ECO DESCRIPTION
OUTLINE CONVERSION PROJECT
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

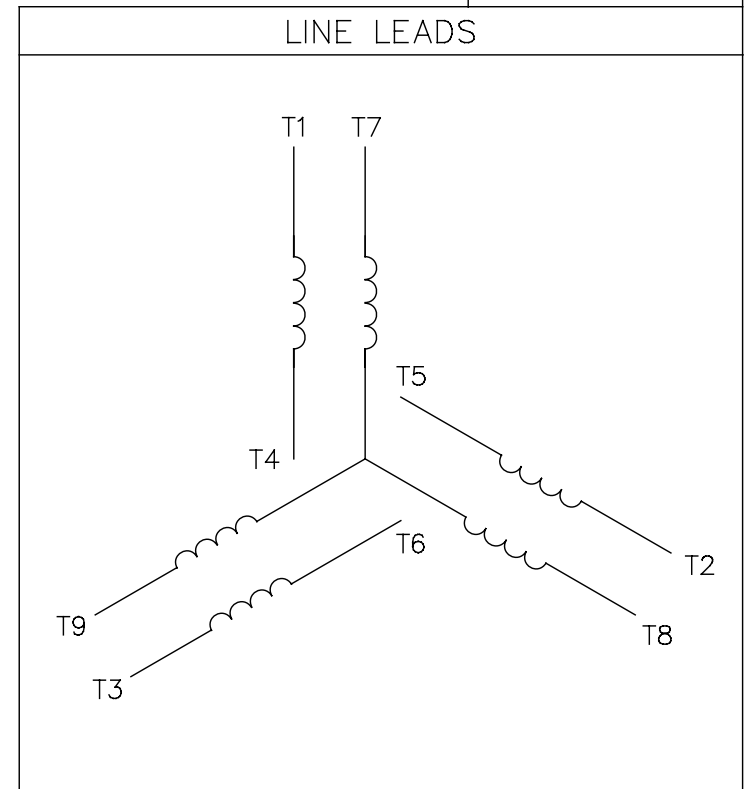
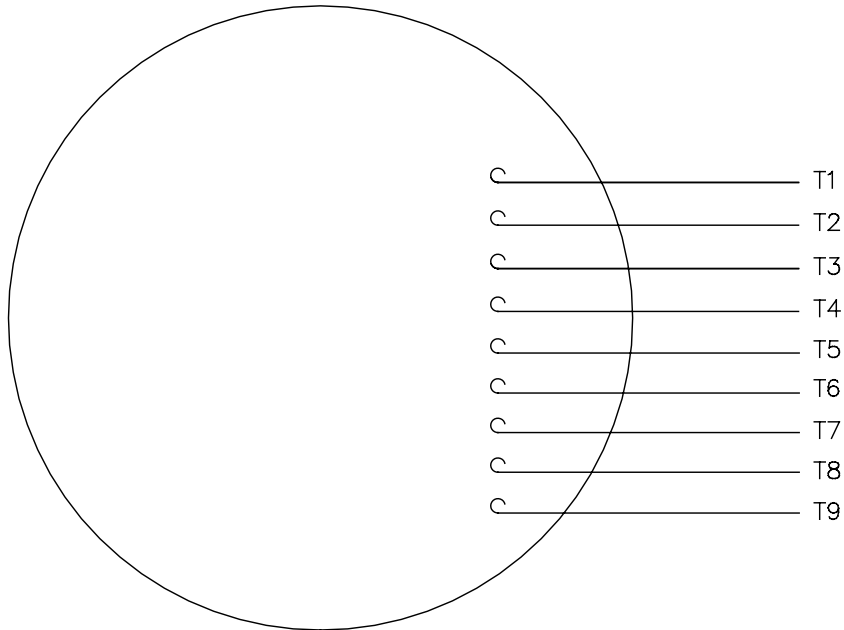
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 125 INCH 3.2 mm SHOWN IN [BRACKETS]

DRAWN BY	DATE	DESCRIPTION
VV	17/08/07	180JM FRAME DRIP PROOF-"C" FACE-JM PUMP
APPROVED BY	DATE	MATERIAL
YS	17/09/07	
REFERENCE	PROCESS/FINISH	
035547		
THIRD ANGLE PROJECTION	SIZE	DRAWING NUMBER
	B	035568
		SHEET
		1 OF 1

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		REGAL ™ Regal Beloit America, Inc.		DRAWN RDW 04/12/02			
				DEC.	INCHES			CHK			
				.X	±.1			APPD			
				.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR		SCALE 1=1			
				.XXX	±.005			REF FIG.2-51			
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005	MAT'L DECAL - 004014		FMF			
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH		PREV			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	04/12/02	CAD FILE		00501001	SIZE	DRAWING NO.	REV.
				DIST		BRF-NLV		A	005010-01	A	



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

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: 005010.01
OUTLINE: 035568-1050
WINDING #: T82109 R1 3

CUSTOMER PO#:
MODEL #: 184TTDW16310 AA
CUSTOMER PART #:
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	3600	3490&2905	184JMV	DP	J	A

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	17.8/8.9&15/7.5	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40

FULL LOAD EFF:	88.5&87.5	3/4 LOAD EFF:	89.4	1/2 LOAD EFF:	88.6	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	89&87	3/4 LOAD PF:	86	1/2 LOAD PF:	78.9	86.2		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.3 LB-FT	150 / 75	28.5 LB-FT 252 %	39 LB-FT 345 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
71 dBA	81 dBA	0.3 LB-FT^2	10 LB-FT^2	15 SEC.	2	100 LBS.

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

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	JM	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6207	6205						

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

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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

PREPARED BY: Dinesh
Suddula **DATE:**
02/13/2019 06:22:42 AM
FORM 3531 REV.3 02/07/99
** Subject to change without
notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



184TTDW16310

Submittal

Data @ 460 V

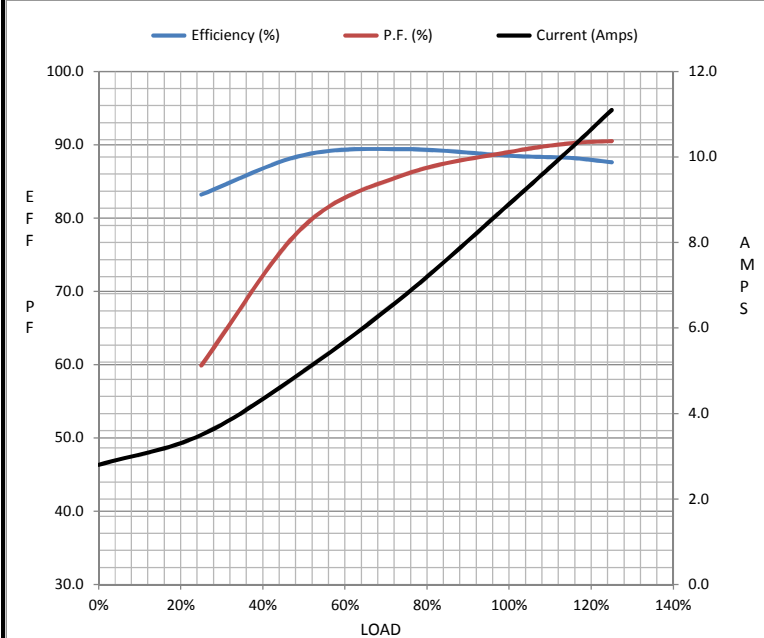
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.80	3.5	5.0	6.8	8.9	10.2	11.1	75.0
Torque (ft-lb)	0.00	2.80	5.6	8.4	11.3	13.1	14.3	28.5
RPM	3600	3573	3548	3520	3490	3,470	3456	0
Efficiency (%)		83.2	88.6	89.4	88.5	88.2	87.6	
P.F. (%)	11.0	59.9	78.9	86.0	89.0	90.2	90.5	47.5

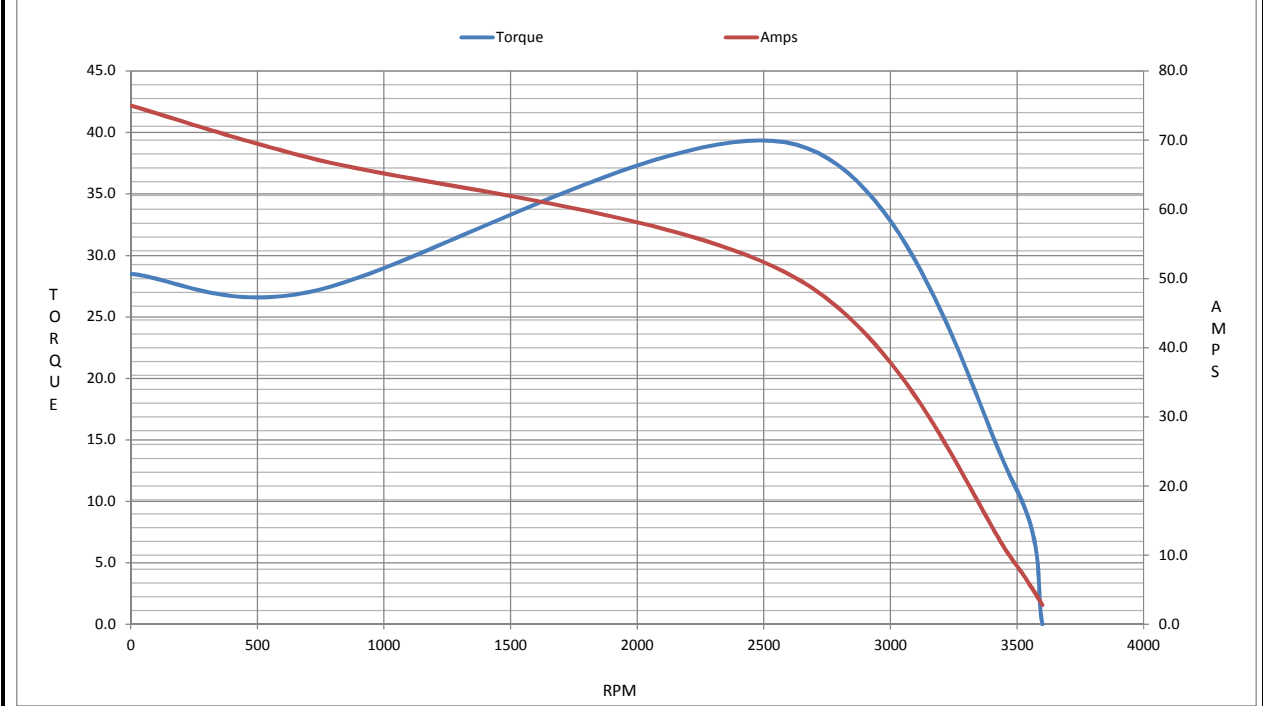
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	2630	3490	3600
Current (Amps)	75.0	67.5	50.0	8.9	2.80
Torque (ft-lb)	28.5	27.0	39.0	11.3	0.00

Information Block				
HP	7.5			
Sync. RPM	3600			
Frame	180			
Enclosure	DP			
Construction	TDW			
Voltage	30/460#190/381V			
Frequency	60 Hz			
Design	A			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.30 Lb-Ft ²			
Ref Wdg	T82109 R1			
Sound Pressure @ 1M	71 dBA			
VFD Rating	NONE			
Outline Dwg	035568-1050			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.1300	0.9220	2.0340	1.2810	79.1530



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 : 184TTDW16310

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

Catalog No : E163B

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