

PRODUCT INFORMATION PACKET

Model No: 182TTGCD6536

Catalog No: C368B

Hazardous Duty® Explosion Proof Motor, 3 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 182TC Frame, EPFC



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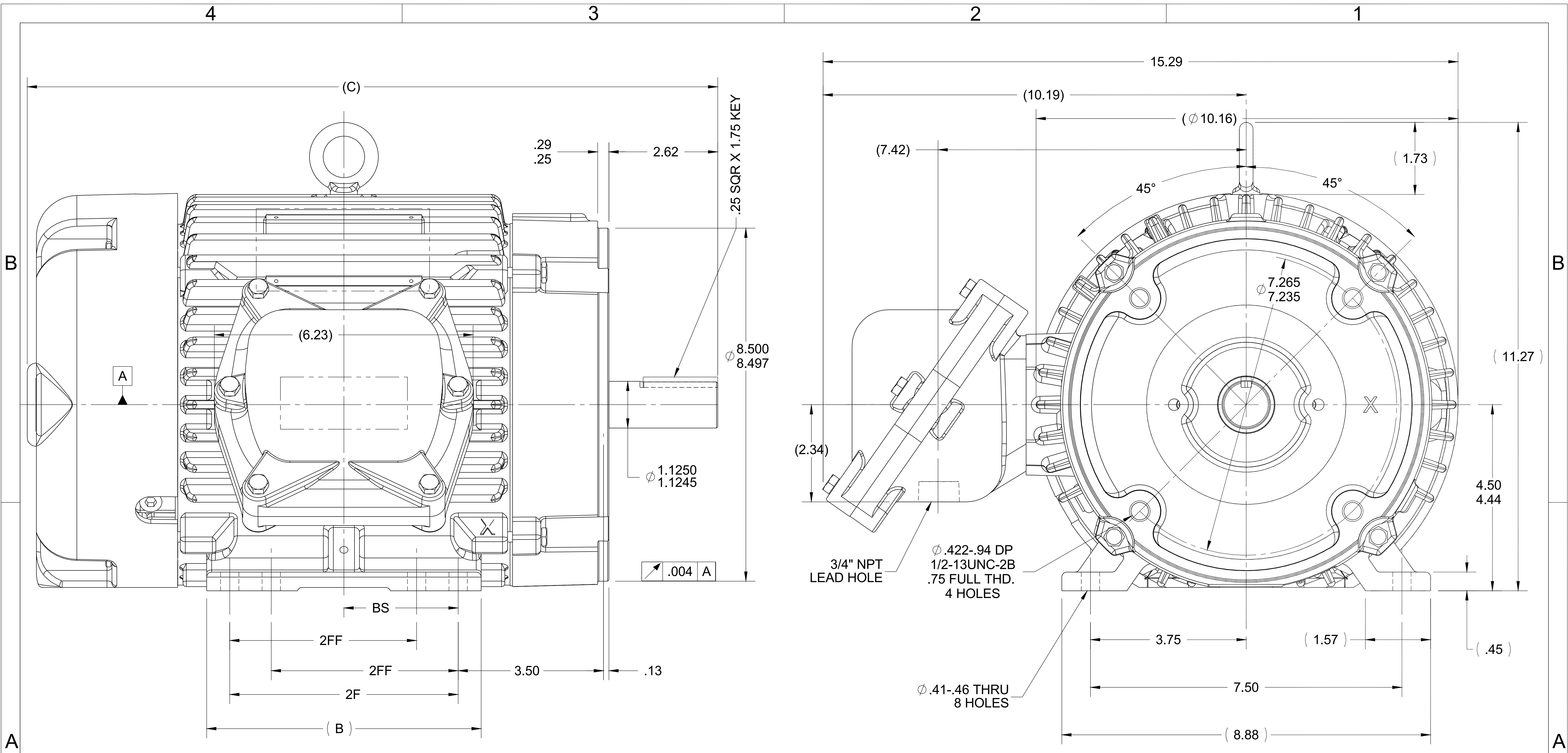
Nameplate Specifications

Phase	3	Output HP	3 Hp
Output KW	2.2 kW	Voltage	575 V
Speed	1762 rpm	Service Factor	1.0
Frame	182TC	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	89.5 %
Ambient Temperature	50 °C	Frequency	60 Hz
Current	3.2 A	Power Factor	78
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	4.15 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.125 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 10:1
Connection Drawing	A-EE7300T	Outline Drawing	035673-800

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- NOTES:
 1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 2. CONDUIT BOX CAN ROTATED IN 90° STEPS.
 3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°

1000	182/184	18.62	8.61	7.50	5.50	3.75
800	182/184	16.62	6.61	5.50	4.50	2.75
DASH	FRAME	C	B	2F	2FF	BS

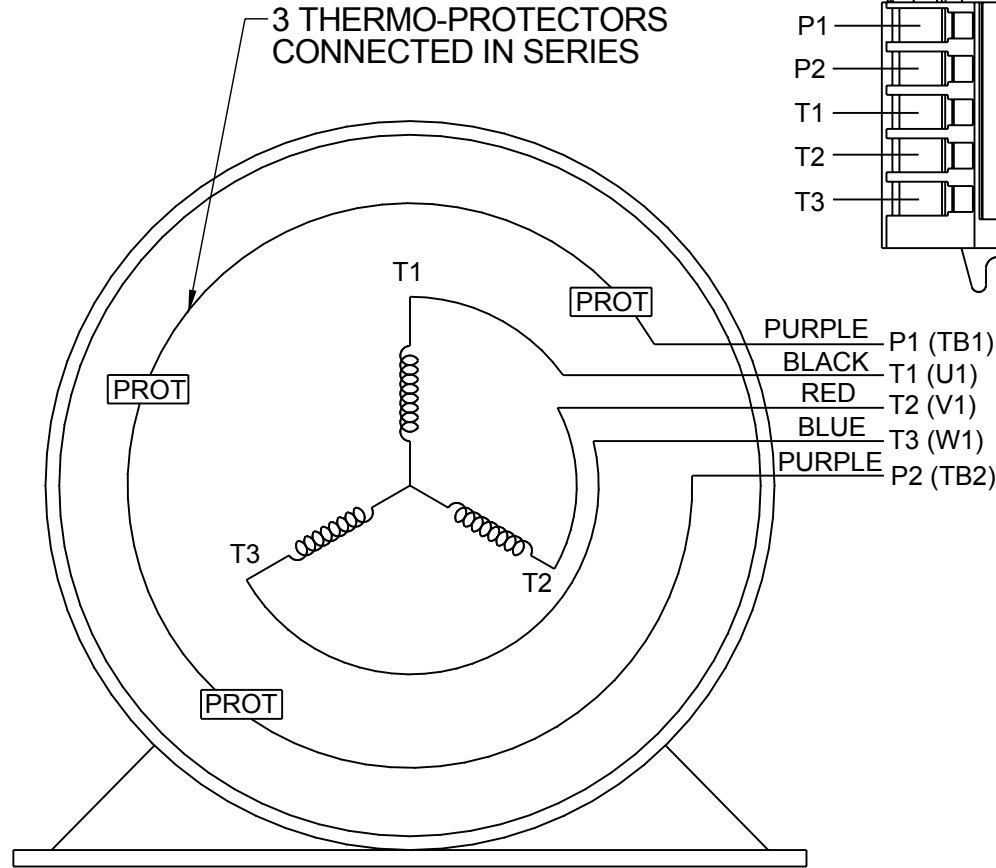
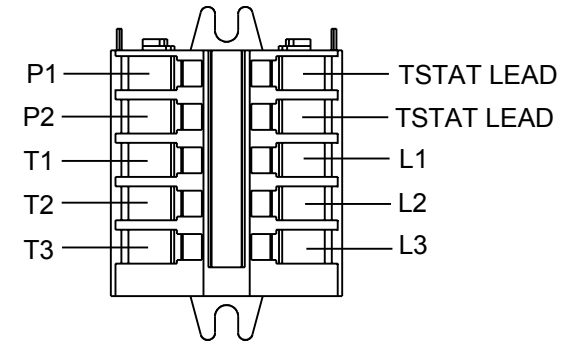
DRAWING REVISION B	REVISION BY KIR	DATE 01/21/16	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±7° 30" .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 200 INCH mm 5.1 mm SHOWN IN [BRACKETS]	DRAWN BY TJW 3/25/2008	Regal Beloit America, Inc.
ECO ECO-0092270	APPROVED BY GR	DATE 01/21/16		DATE	
ECO DESCRIPTION TITLE BLOCK UPDATED 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 PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, 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.				APPROVED BY SW 3/26/2008	DESCRIPTION OUTLINE 180 FR. EPFC - C FACE - CAST C'BOX
			REFERENCE	MATERIAL	PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 035673
					SHEET 1 OF 1

**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS**

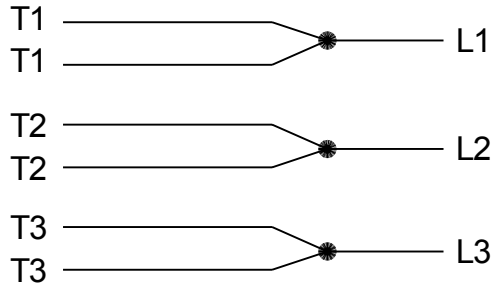
**NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

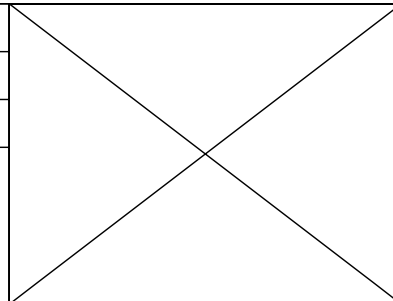
**IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S**



A-9806 DECAL

- T2BM
- T6AW
- T6AL
- T6Z
- T4EG
- T4BF
- T8A
- T6H
- T6A
- T4AX
- T4A
- T2A
- T2F

DRAWING REVISION AB	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T.VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC-60034-8		
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DRAWN BY LZ
DATE 01-04-1994
APPROVED BY GK
DATE 01-20-1994
REFERENCE
THIRD ANGLE PROJECTION

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300T
SHEET 1 OF 1	

Data Sheet

Date: 3/27/2024
 Customer: _____
 Attention: _____
 Submitted by: RAMYA



182TTGCD6536

Submittal

Data @ 575 V

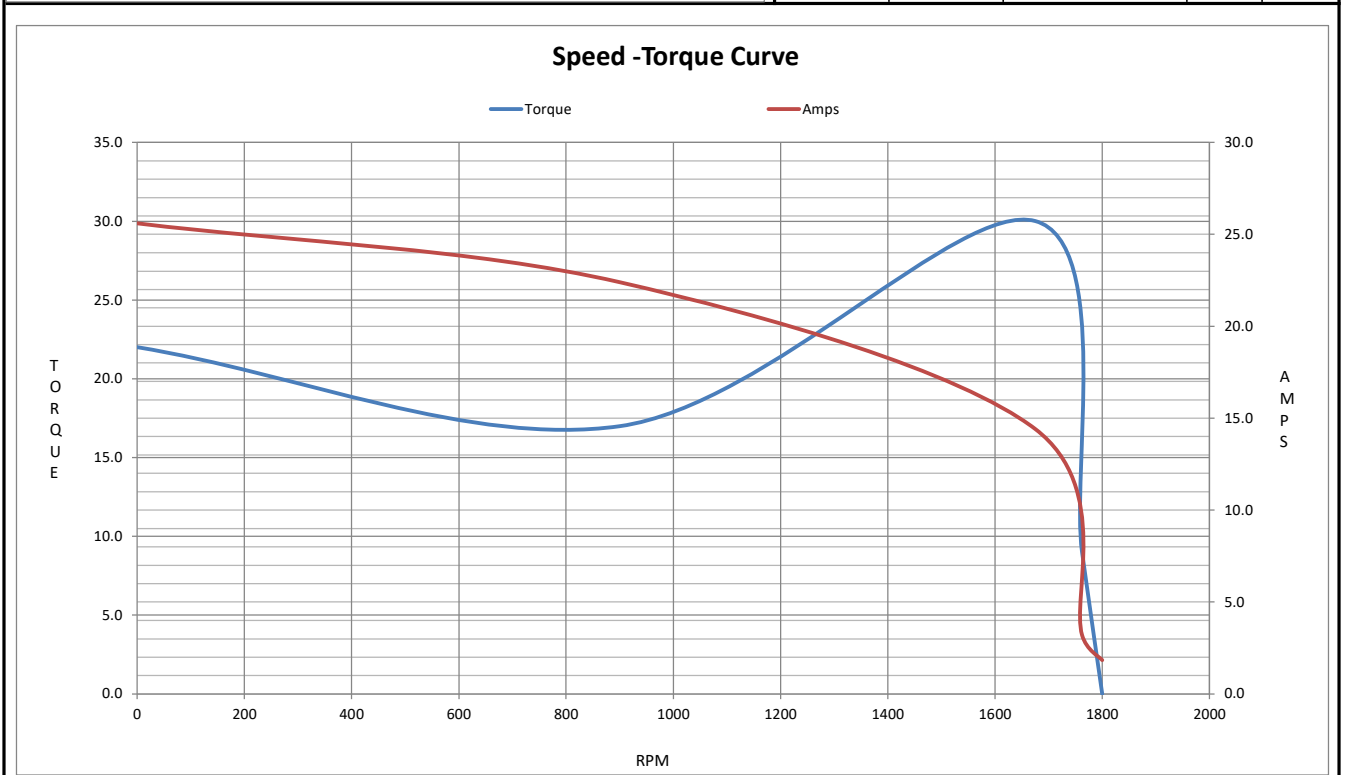
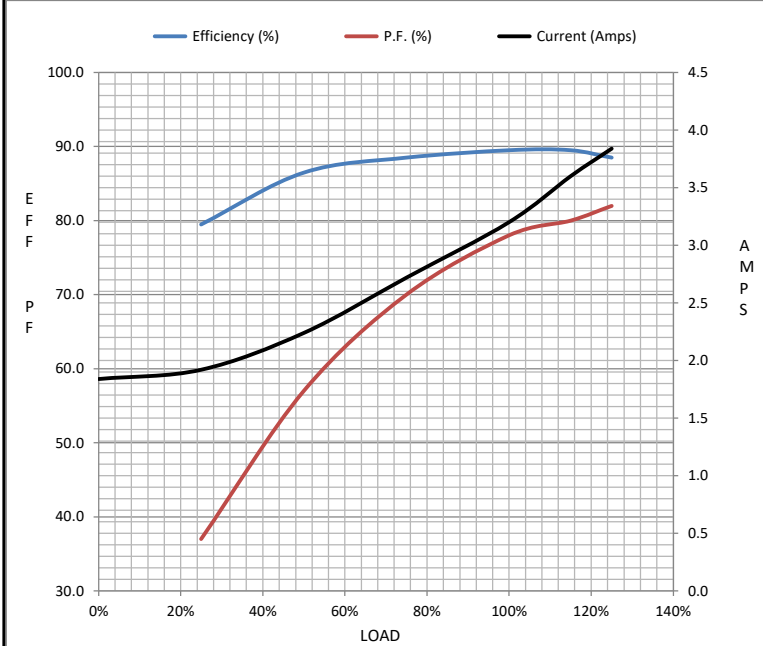
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.84	1.92	2.24	2.72	3.2	3.6	3.8	25.6
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.3	11.2	22.0
RPM	1800	1790	1782	1772	1762	1,758	1755	0
Efficiency (%)		79.5	86.5	88.5	89.5	89.5	88.5	
P.F. (%)	7.0	37.0	57.0	70.0	78.0	80.0	82.0	48.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1762	1800
Current (Amps)	25.6	22.4	14.4	3.2	1.84
Torque (ft-lb)	22.0	17.0	30.0	9.0	0.00

Information Block				
HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	EPFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	50 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	0.30 Lb-F ²			
Ref Wdg	HA31124021 R1			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	035673-800			
Conn. Diag	A-EE7300T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.6950	2.2170	8.4250	8.4250	184.7660



CERTIFICATE OF COMPLIANCE

Certificate Number 20220217- E12044
Report Reference E12044-20090313
Issue Date 2022-FEBRUARY-17

Issued to: REGAL BELOIT AMERICA INC
1946 W COOK RD
FORT WAYNE IN 46818

Tradename: Marathon

**This certificate confirms that
representative samples of**

MOTORS FOR USE IN HAZARDOUS LOCATIONS
Electric motors for use in hazardous locations; Class I,
Groups C and D; Class II, Groups F and G; Inclusive of
Model Number 182TTGCD6536 (may have prefix and/or
suffix characters).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674 - Electric Motors and Generators for Use in Division
1 Hazardous (Classified) Locations,
CSA C22.2 No. 145, Electric Motors and Generators for
Use in Hazardous (Classified) Locations

Additional Information: See the UL Online Certifications Directory at
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Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's
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Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested
according to the current UL requirements.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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