

# PRODUCT INFORMATION PACKET

Model No: 215TTGN16534

Catalog No: C371A

10 HP Explosion Proof Motor, 3 phase, 1800 RPM, 575 V, 215TC Frame, EPFC  
Explosion Proof NEMA Motors



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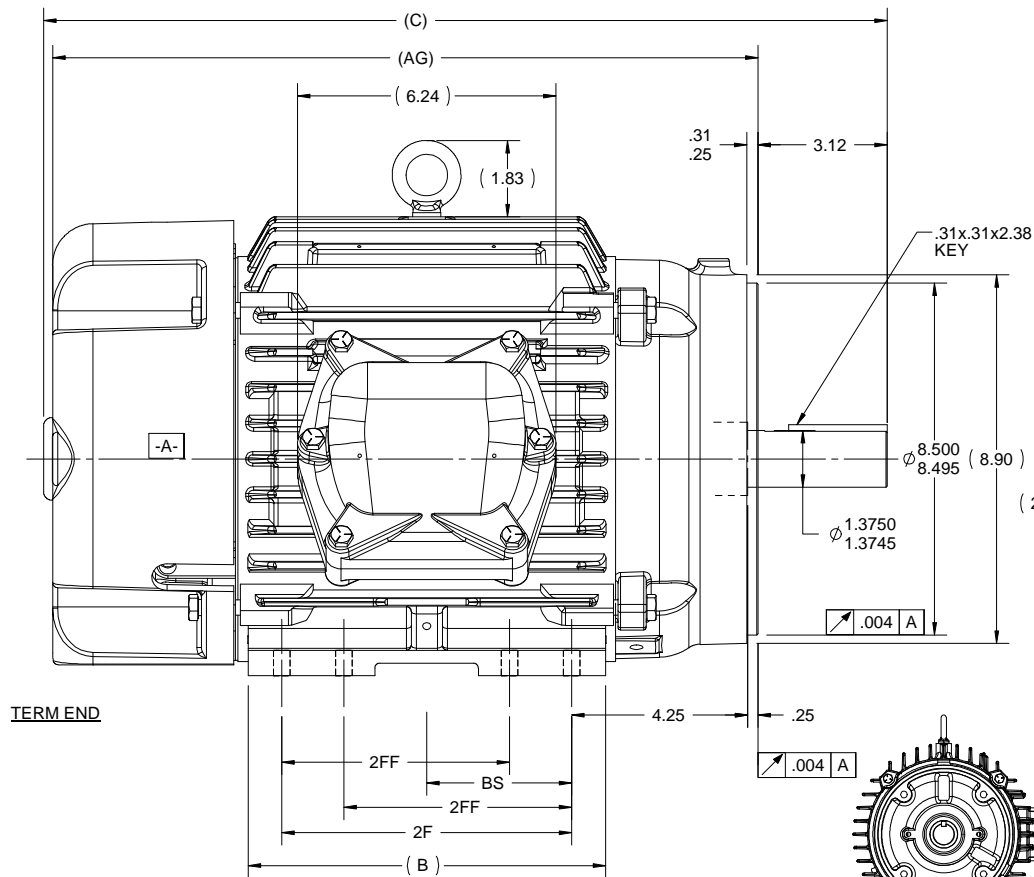
**REGAL**

### Nameplate Specifications

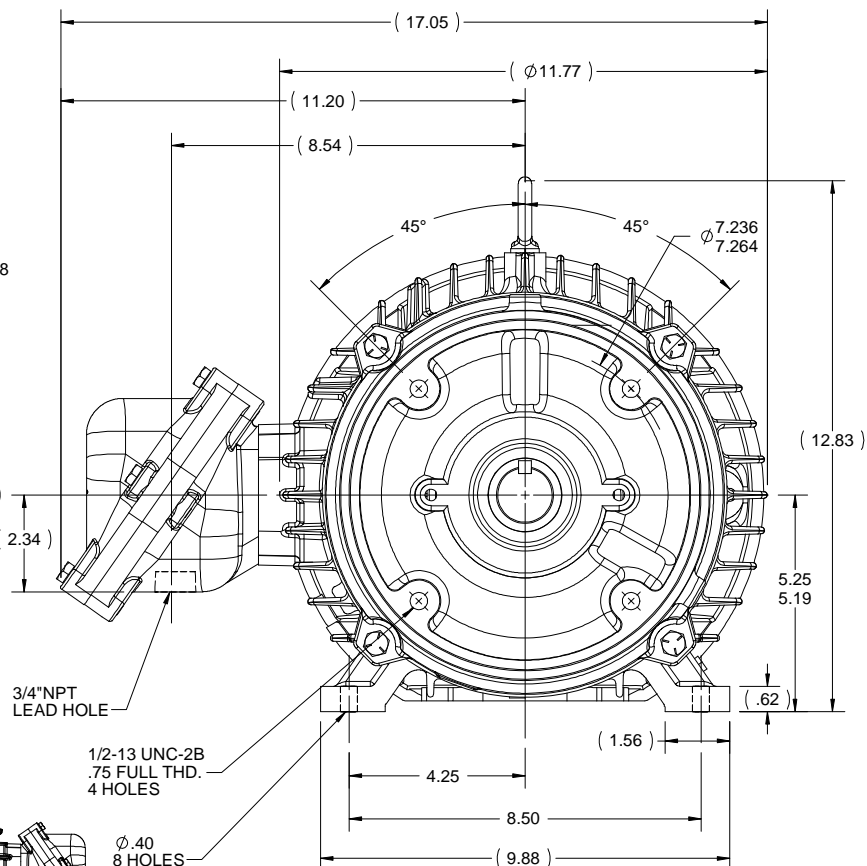
Output HP	<b>10 Hp</b>	Output KW	<b>7.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>10.0 A</b>	Speed	<b>1765 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>91.7 %</b>	Power Factor	<b>82</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Frame	<b>215TC</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Thermostats (N/C)</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>309</b>	Opp Drive End Bearing Size	<b>208</b>
UL	<b>UL Listed; also, UL Certified for Canada</b>	CSA	<b>N</b>
CE	<b>N</b>	IP Code	<b>54</b>
Hazardous Location	<b>EXP PROOF CL I GR D CL II GR F&amp;G T3B</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.894 Ohms</b>	Mounting	<b>Rigid base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Overall Length	<b>23.45 in</b>
Frame Length	<b>12.12 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.12 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Outline Drawing	<b>037702-1212</b>	Connection Drawing	<b>A-EE7300T</b>



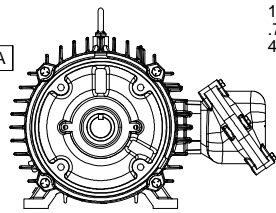
TERM END



3/4"NPT LEAD HOLE

1/2-13 UNC-2B .75 FULL THD. 4 HOLES

Ø .40 8 HOLES



F2 VIEW

NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTOR AND GENERATORS, REBUILT FOR USE IN HAZARDOUS LOCATION".
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1212	215	23.45	11.76	10	7	5	20.11
912	213/215	20.45	8.63	7	5.5	3.5	17.11
DASH	FRAME	C	B	2F	2FF	BS	AG

DRAWING REVISION F	REVISION BY MVG	DATE 02/14/2018
ECO ECO-0139688	APPROVED BY ST	DATE 02/14/2018
ECO DESCRIPTION UPDATED PER ECO		
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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 [.076/.381] X 45 ° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200  $\sqrt{5.1}$  INCH  $\sqrt{mm}$  mm SHOWN IN [BRACKETS]

DRAWN BY PN 9/2/2010
DATE
APPROVED BY
DATE
REFERENCE 037660
THIRD ANGLE PROJECTION

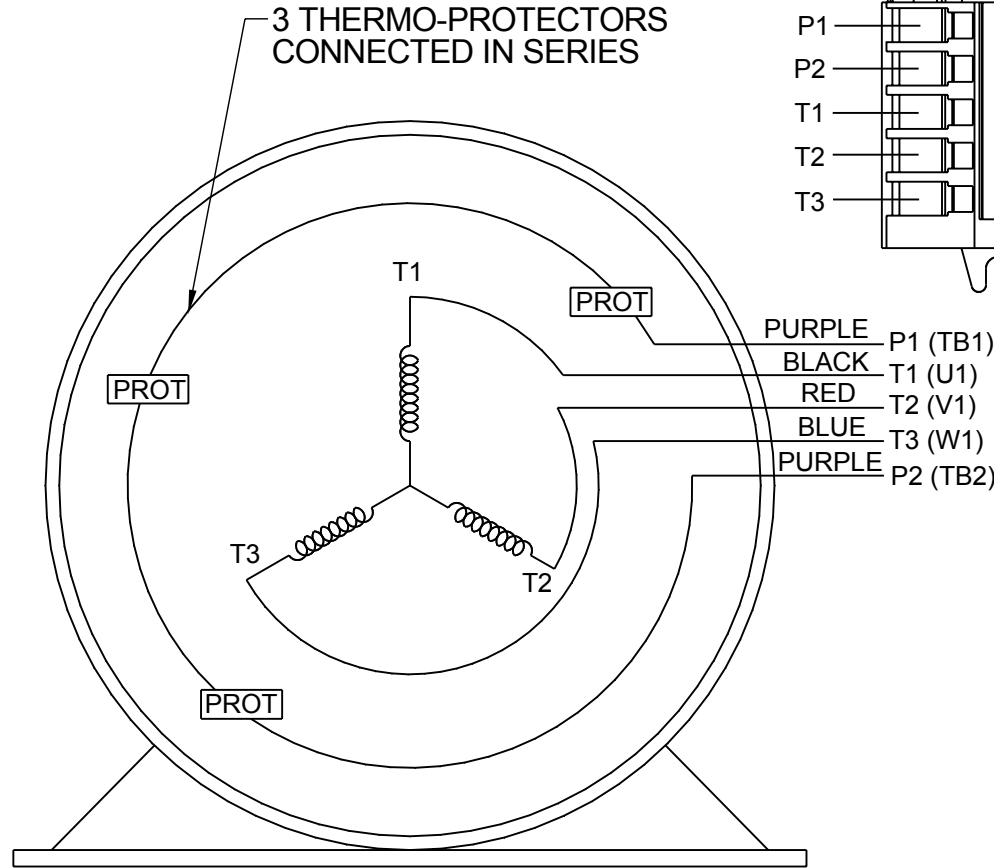
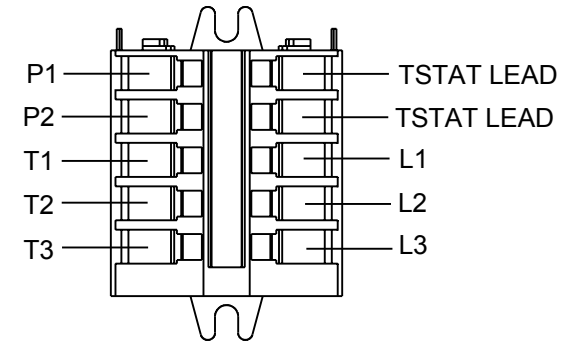
Regal Beloit America, Inc.	
DESCRIPTION	<b>OUTLINE</b> 210 FR. - EPFC
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER 037702
SHEET 1 OF 1	

**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

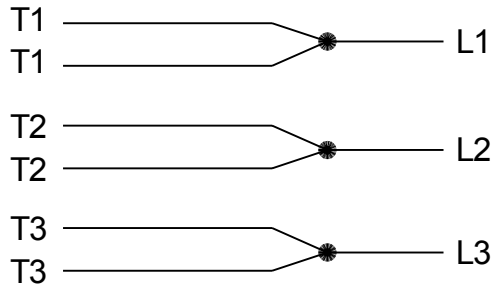


- PURPLE P1 (TB1)
- BLACK T1 (U1)
- RED T2 (V1)
- BLUE T3 (W1)
- PURPLE P2 (TB2)

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

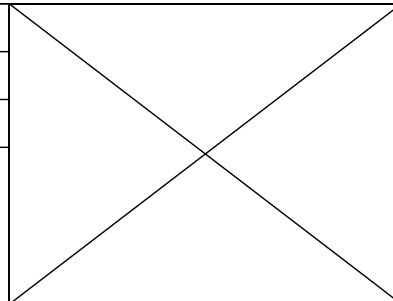
**VIEW OF TERMINAL END**

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



**A-9806 DECAL**

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	<b>Regal Beloit America, Inc.</b>	
DATE 01-04-1994		
APPROVED BY GK	DESCRIPTION <b>CONN DIAGRAM-EXTERNAL</b> 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR	
DATE 01-20-1994	MATERIAL	
REFERENCE	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE <b>A</b>	DRAWING NUMBER <b>EE7300T</b>
		SHEET 1 OF 1



Data Sheet

215TTGN16534



Submittal  
Data @ 575 V

Date: 6/19/2017

Customer:   
Attention:   
Submitted by: FAREEDA DUDEKULA

Motor Load Data

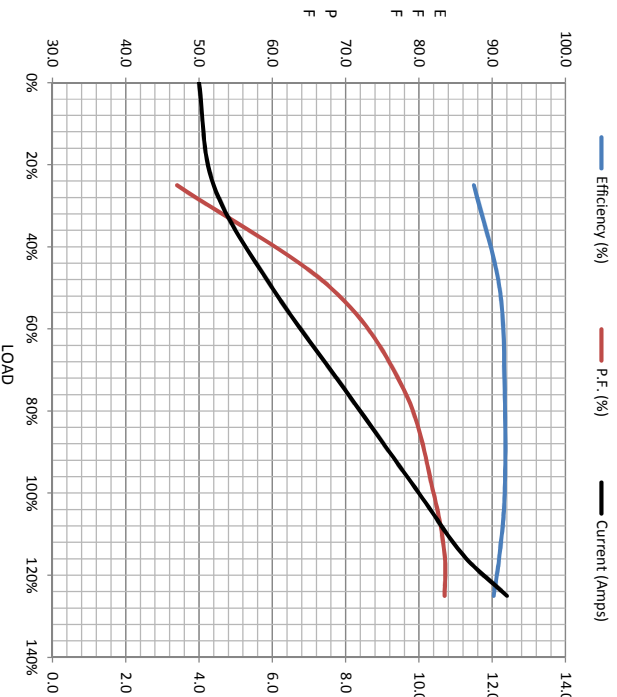
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.0	4.4	6.0	8.0	10.0	11.2	12.4	64.0
Torque (ft-lb)	0.00	7.5	14.5	22.0	29.8	34.5	37.5	60.0
RPM	1800	1790	1785	1775	1765	1755	1750	0
Efficiency (%)		87.5	91.0	91.7	91.7	91.0	90.2	
P.F. (%)		47.0	68.0	78.0	82.0	83.5	83.5	42.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	900	1675	1765	1800
Current (Amps)	64.0	57.6	36.8	10.0	4.0
Torque (ft-lb)	60.0	54.0	81.0	29.8	0.00

Information Block

HP	10.0
Sync. RPM	1800
Frame	215
Enclosure	TEFC
Construction	TFN
Voltage	575 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	55 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wkt	1.20 Lb-Fe
Rel Wdg	K2154249 NONE
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 2:1
Outline Dwg	037702-1212
Conn. Diag	A-EE7300T
Additional Specifications:	
0	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.8430	0.7630
X1	X2
3.2700	5.0140
Xm	Xm
	79.8750



Speed - Torque Curve

