PRODUCT INFORMATION PACKET

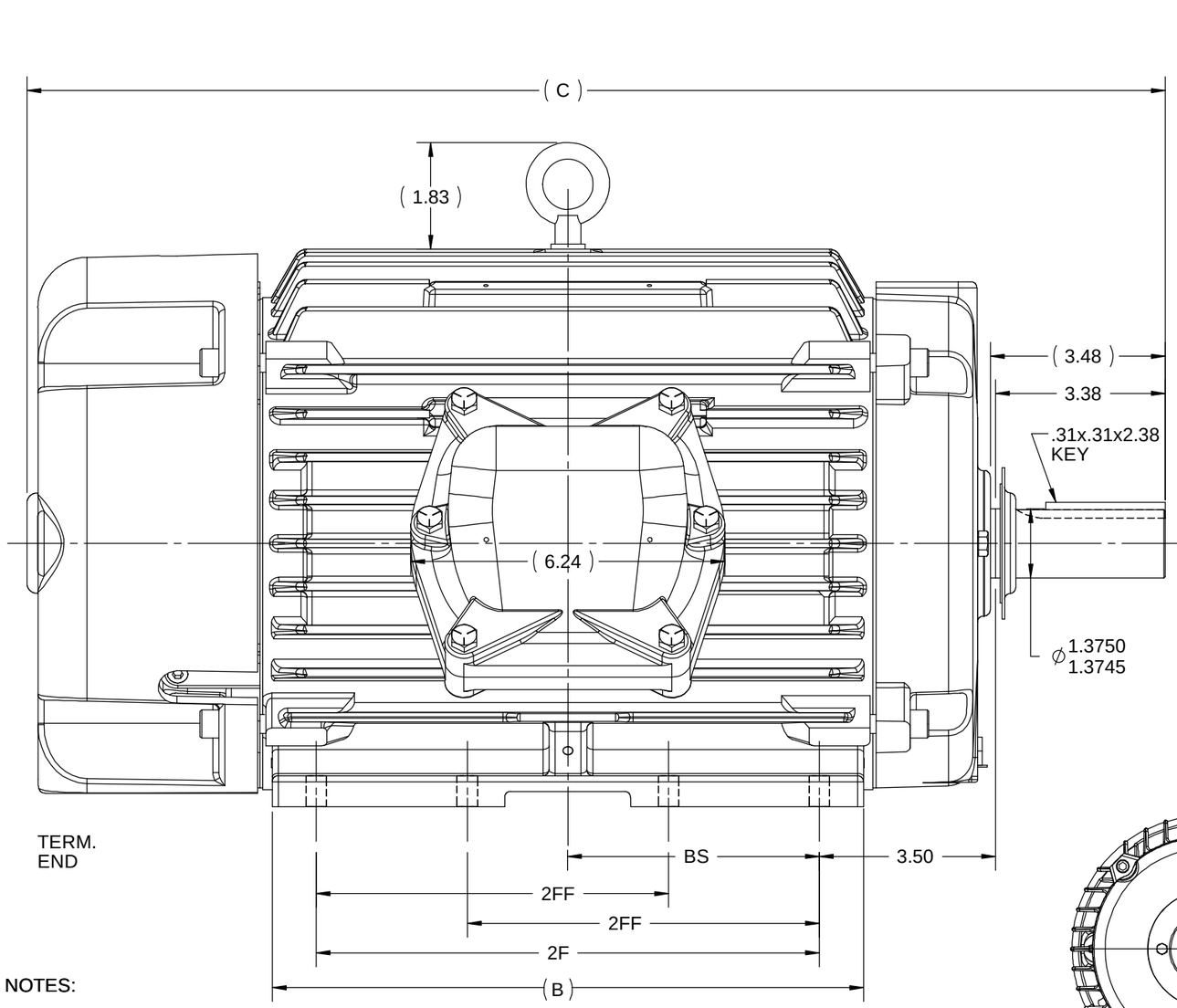
Model No: 213TTGN16537
Catalog No: U025A
Hazardous Duty® Explosion Proof Motor, 7.50 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 213T Frame, EPFC

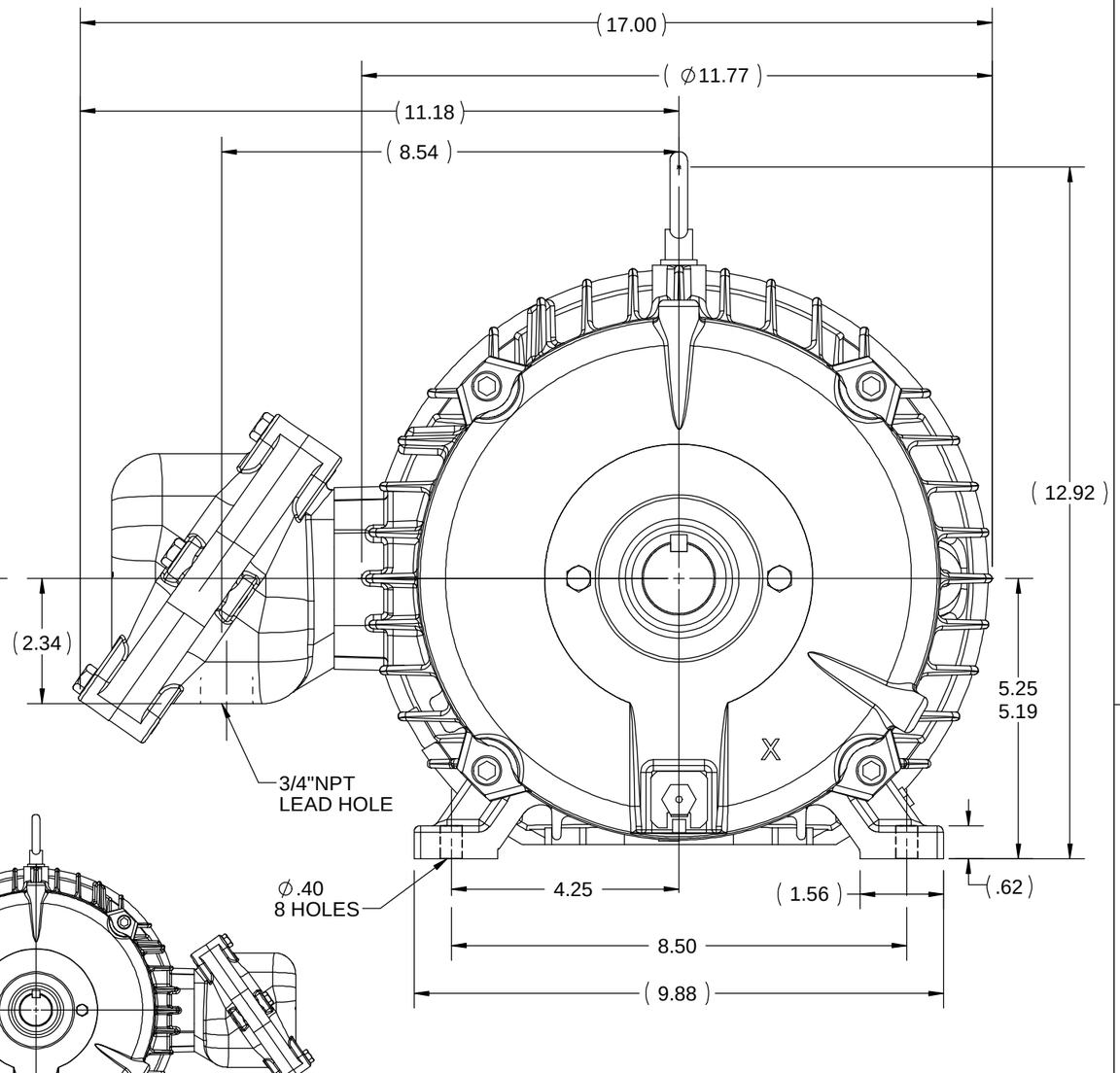
Nameplate Specifications

Phase	3	Output HP	7.50 Hp
Output KW	5.6 kW	Voltage	575 V
Speed	1770 rpm	Service Factor	1.15
Frame	213T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	91.7 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	8.0 A	Power Factor	76.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6208
UL	UL Listed; also, UL Certified for Canada	CSA	N
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR D CL II GR F&G T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.18 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	19.63 in
Frame Length	9.12 in	Shaft Diameter	1.375 in
Shaft Extension	3.48 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7300T	Outline Drawing	037660-912





F2 MOUNTING

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 ORGINAL 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.

DASH	FRAME	C	B	2F	2FF	BS
1212	215	22.63	11.76	10	7	5
912	213/215	19.63	8.63	7	5.5	3.5

DRAWING REVISION G	REVISION BY MVG	DATE 02/08/2019
ECO ECO-0139404	APPROVED BY SR	DATE 02/08/2019
ECO DESCRIPTION OUTLINE UPDATED AS PER ECR-0149056		

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 / INCH 5.1 / mm
mm SHOWN IN [BRACKETS]

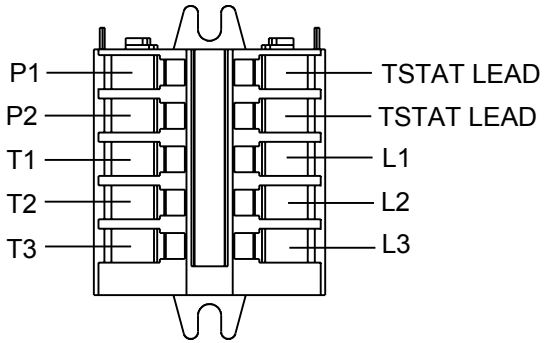
DRAWN BY AK 10/28/2009	REGAL™ Regal Beloit America, Inc.	
DATE		
APPROVED BY	DESCRIPTION OUTLINE 210 FR. - EPFC	
DATE		
REFERENCE SS84370	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER 037660	SHEET 1 OF 1

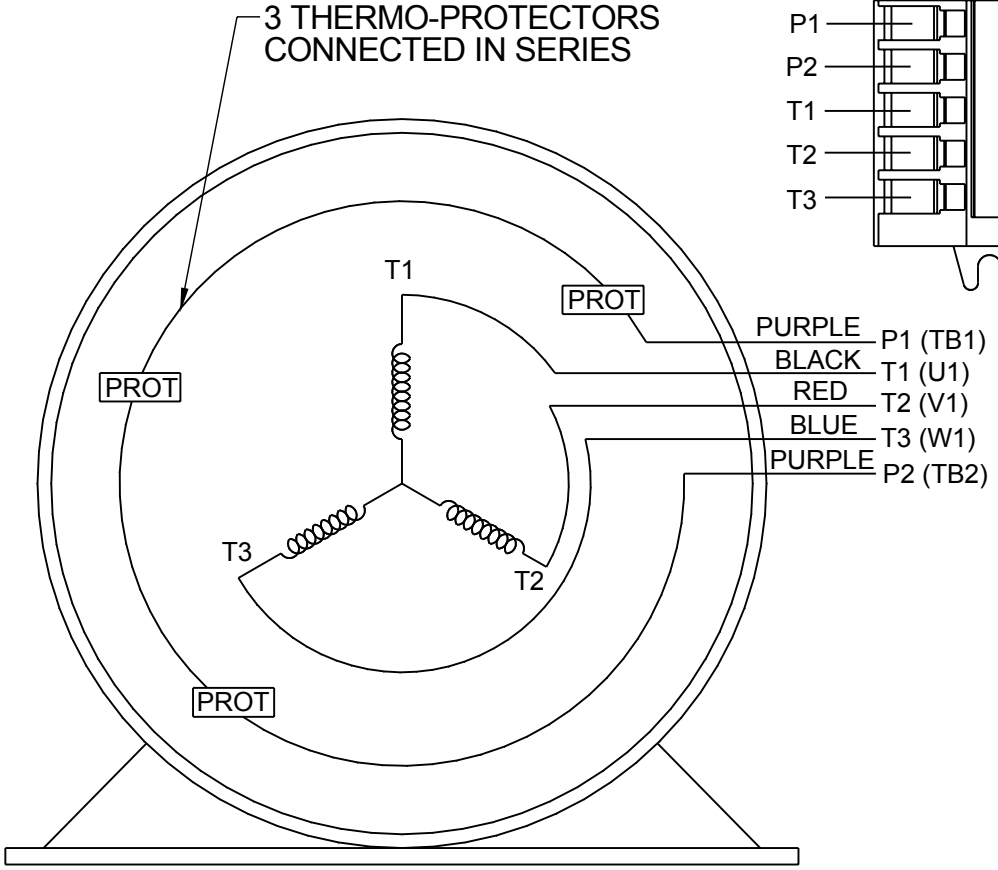
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

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

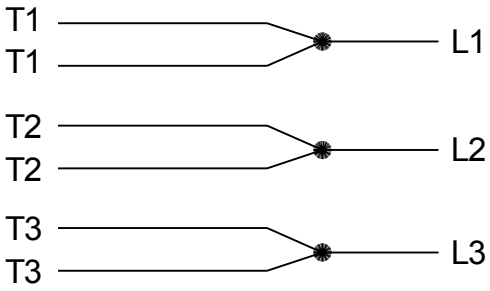
TERMINIAL BLOCK WHEN SPECIFIED





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		DRAWN BY: LZ	Regal Beloit America, Inc.
ECO: ECO-0081632	APPROVED BY: T.VUE	DATE: 07-17-2015		DATE: 01-04-1994	
ECO DESCRIPTION: REV'D IEC MARKINGS PER IEC-60034-8				APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL
				DATE: 01-20-1994	3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7300T / SHEET: 1 OF 1

CERTIFICATION DATA SHEET

Model#:	213TTGN16537 AB	**WINDING#:**	K2134268 NONE 2
CONN. DIAGRAM:	A-EE7300T	**ASSEMBLY:**	F1 ONLY
OUTLINE:	037660-912		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.6	1800	1770	213T	EPFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	8	LINE OR INVERTER	CONTINUOUS	F3	1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.4	1/2 LOAD EFF: 90.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76.5	3/4 LOAD PF: 68.1	1/2 LOAD PF: 56	91	SQ CAGE INV RATED	4.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.2 LB-FT	54	52.9 LB-FT 238	75 LB-FT 338	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.85 LB-FT^2	45 LB-FT^2	25 SEC.	2	140 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	EXP PROOF CL I GR D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6307	BALL 6208	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

* NOTES *

DATE: 06/22/2017 06:00:29 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 19-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

213TTGN16537

Submittal

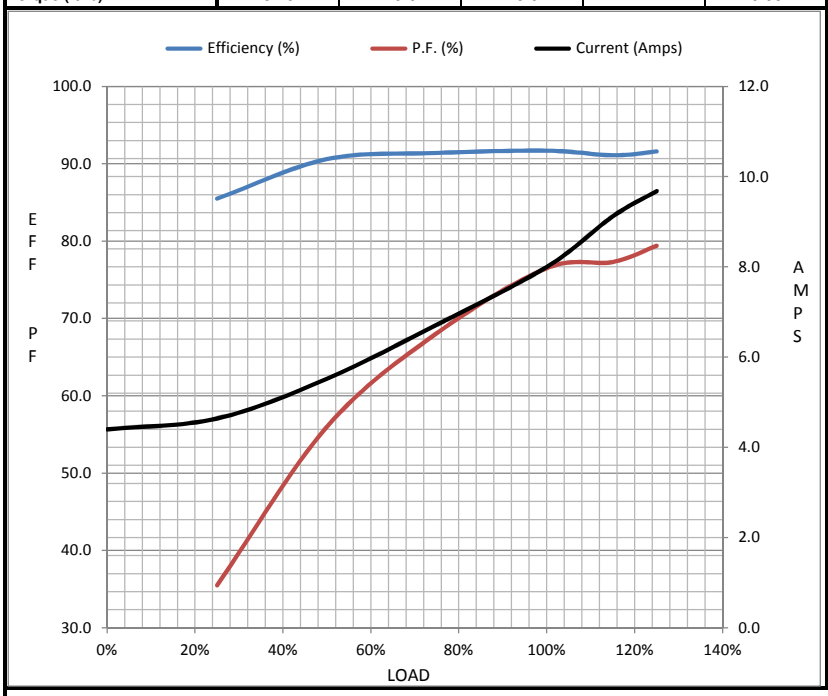
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.4	4.6	5.5	6.7	8.0	9.1	9.7	54.0	
Torque (ft-lb)	0.00	5.5	11.0	16.5	22.2	25.5	28.0	52.9	
RPM	1800	1794	1785	1779	1770	1,765	1762	0	
Efficiency (%)		85.5	90.6	91.4	91.7	91.1	91.6		
P.F. (%)	5.0	35.5	56.0	68.1	76.5	77.3	79.4	42.6	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1770	1800
Current (Amps)	54.0	45.6	32.8	8.0	4.4
Torque (ft-lb)	52.9	49.0	75.0	22.2	0.00



Information Block

HP	7.5
Sync. RPM	1800
Frame	213
Enclosure	TEFC
Construction	TFN
Voltage	575 V
Frequency	60 Hz
Design	B
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	45 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.85 Lb-Ft²
Ref Wdg	K2134268 NONE
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	037660-912
Conn. Diag	A-EE7300T

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.1880	1.7310	3.8410	4.9580	78.7720

Speed -Torque Curve