

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 213TTGN6576
Catalog No: U042A
3,1200,EPFC,213T,3/60/208-230/460
Explosion Proof



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REGAL[®]



Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.8/4.4 A	Speed	1170 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	K	Frame	213T
Enclosure	Explosion Proof Fan cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6307
Opp Drive End Bearing Size	6208	UL	No
CSA	N	CE	N
IP Code	54		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
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		
Outline Drawing	037660-912	Connection Diagram	A-EE7308T

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B

B

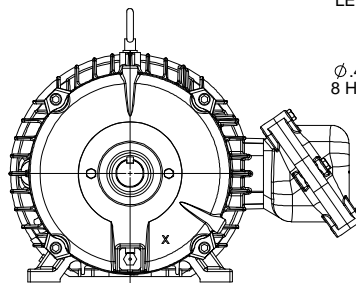
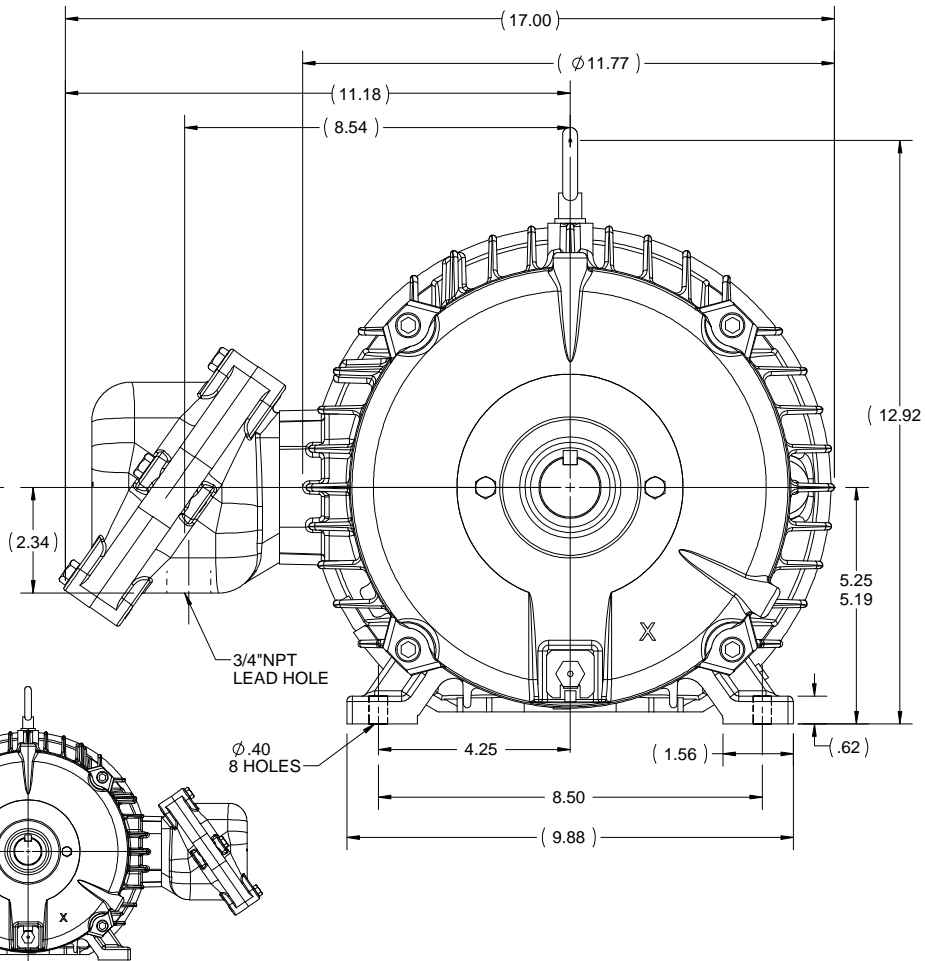
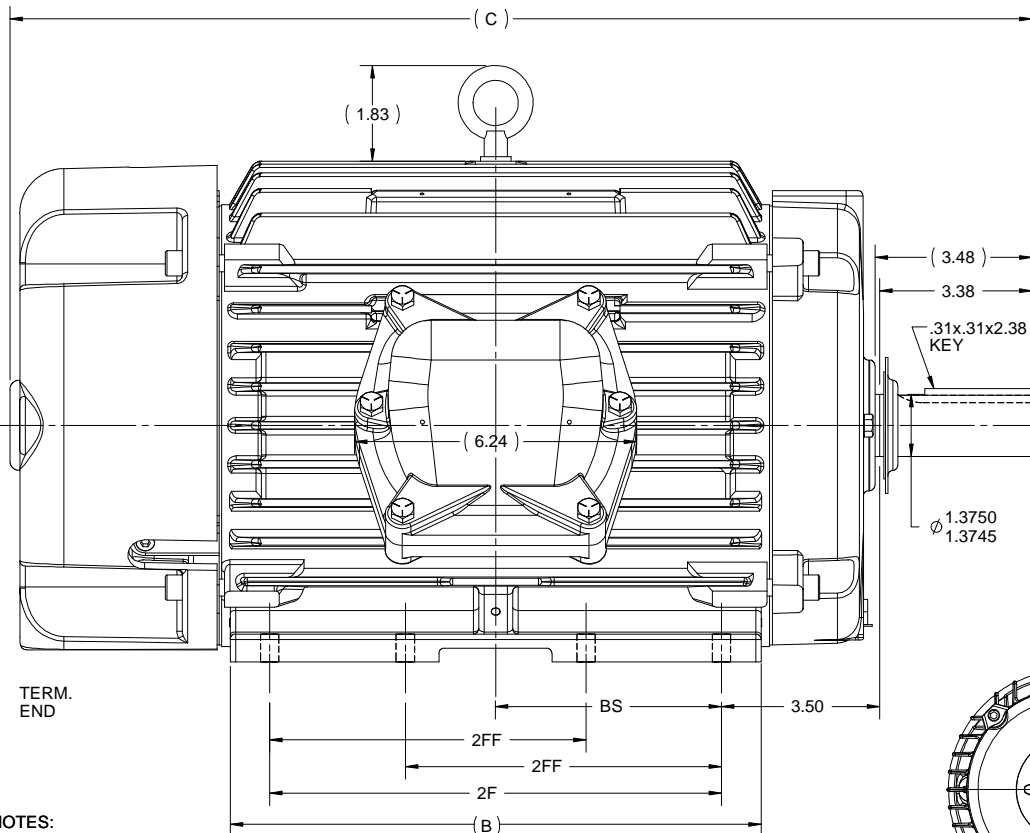
TERM.
END

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.

A

A



F2 MOUNTING

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

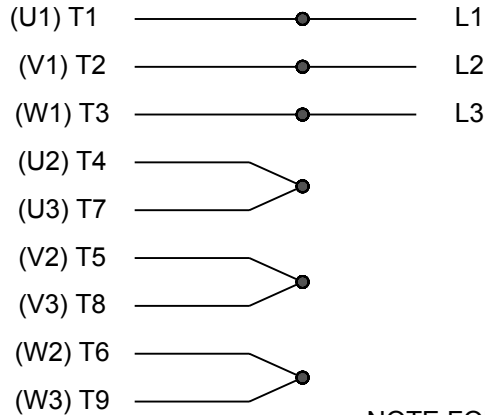
DRAWING REVISION G	REVISION BY MVG	DATE 02/08/2019
ECO-0139404	APPROVED BY SR	DATE 02/08/2019
ECO DESCRIPTION OUTLINE UPDATED AS PER ECR-0149056		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	+0.1	[+2.5]
.XX	+0.03	[+0.76]
.XXX	+0.005	[+0.127]
.XXXX	+0.0005	[+0.0127]
REMOVE BURRS & BREAK SHARP		
EDGES: .003/.015 [.076/.381] X 45°		
CORNER FILLETS: R.02 [.51]		
MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]		

DRAWN BY AK 10/28/2009
DATE
APPROVED BY
DATE
REFERENCE SS84370
THIRD ANGLE PROJECTION

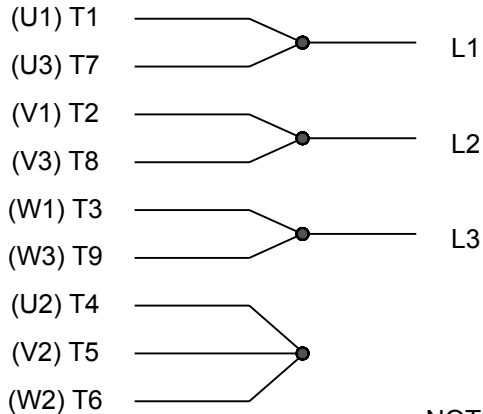
Regal Beloit America, Inc.	
DESCRIPTION	OUTLINE 210 FR. - EPFC
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER 037660
SHEET 1 OF 1	

HIGH VOLTAGE



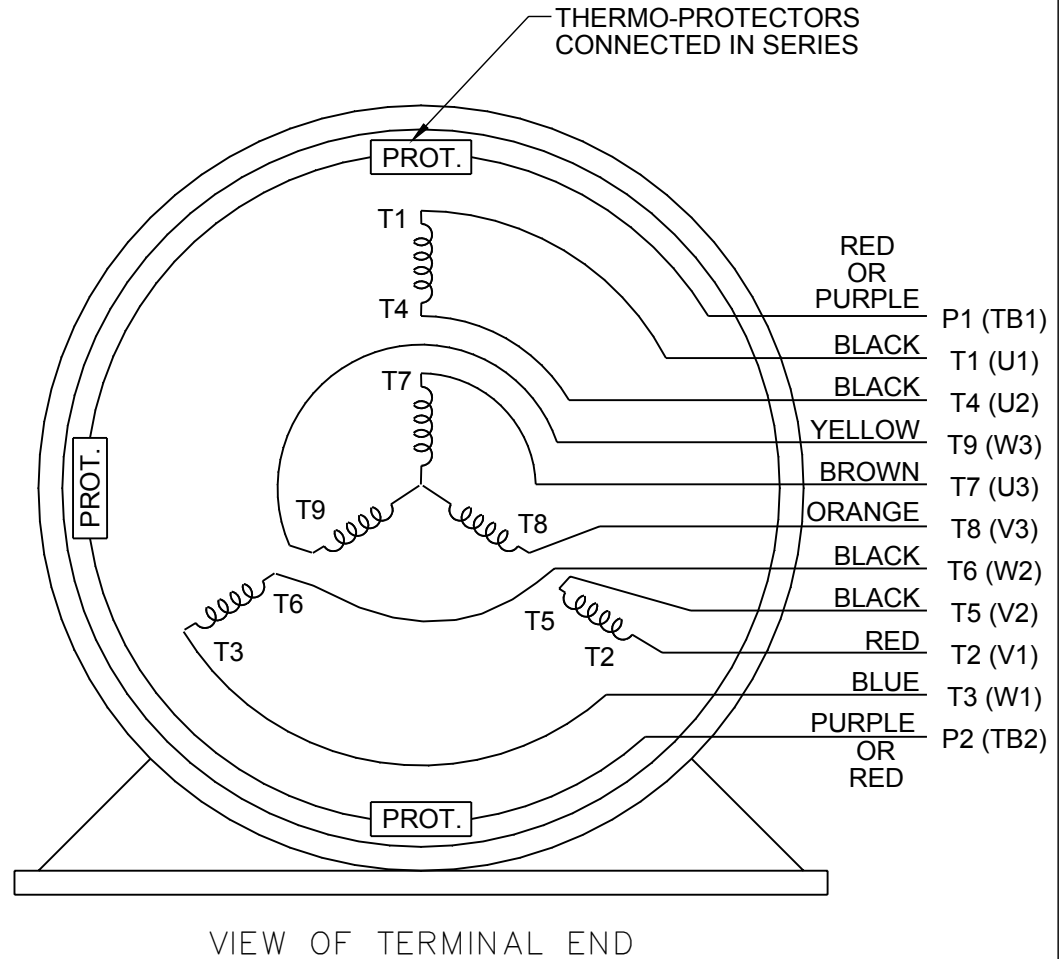
**NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1**

LOW VOLTAGE



NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

THREE PHASE DUAL VOLTAGE MOTOR



DRAWING REVISION R	REVISION BY AJW	DATE 07-17-2015		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015		DATE 05-13-1992	
ECO DESCRIPTION REV'D IEC NOTATIONS PER IEC 60034-8				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL
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			REFERENCE EE7308/EE7300	MATERIAL	PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308T

CERTIFICATION DATA SHEET

Model#: 213TTGN6576 AA **WINDING#:** K213660 NONE 6
CONN. DIAGRAM: A-EE7308T **ASSEMBLY:** F1 ONLY
OUTLINE: 037660-912

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1200	1170&985	213T	EPFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	8.8/4.4&7.6/3. 8	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&87.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 70&64	3/4 LOAD PF: 62	1/2 LOAD PF: 49.5	88.5	SQ CAGE INV RATED	5 / 2.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.5 LB-FT	64 / 32	34 LB-FT 252	47.5 LB-FT 352	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	0.8 LB-FT^2	90 LB-FT^2	25 SEC.	2	160 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	TRUE	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

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DATE: 06/22/2017 06:45:23 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



213TTGN6576

Submittal

Data @ 460 V

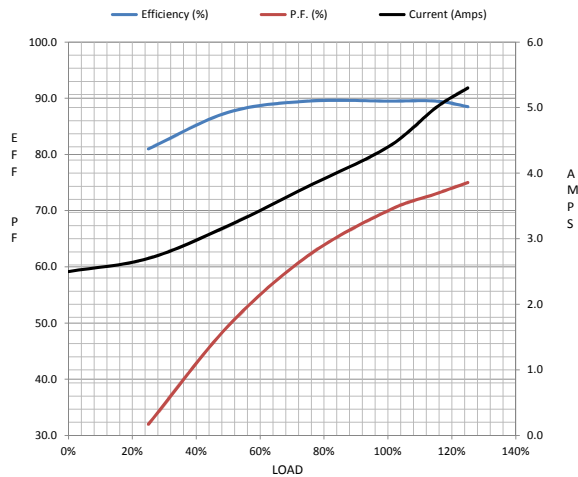
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.50	2.70	3.2	3.8	4.4	5.0	5.3	32.0
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.5	15.5	17.0	34.0
RPM	1200	1194	1186	1180	1170	1,168	1166	0
Efficiency (%)		81.0	87.5	89.5	89.5	89.5	88.5	
P.F. (%)	6.0	32.0	49.5	62.0	70.0	73.0	75.0	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1025	1170	1200
Current (Amps)	32.0	28.0	20.0	4.4	2.50
Torque (ft-lb)	34.0	32.0	47.5	13.5	0.00

Information Block				
HP	3.0			
Sync. RPM	1200			
Frame	213			
Enclosure	TEFC			
Construction	TFN			
Voltage	30/460#190/38V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	35 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.80 Lb-FT ²			
Ref Wdg	K213660 NONE			
Sound Pressure @ 1M	55 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	037660-912			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.6270	1.5890	6.7630	7.7850	95.0630



Speed -Torque Curve

