

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTTL16038

Catalog No: C407A

Brake Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 213TC Frame, TENV



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RegalRexnord

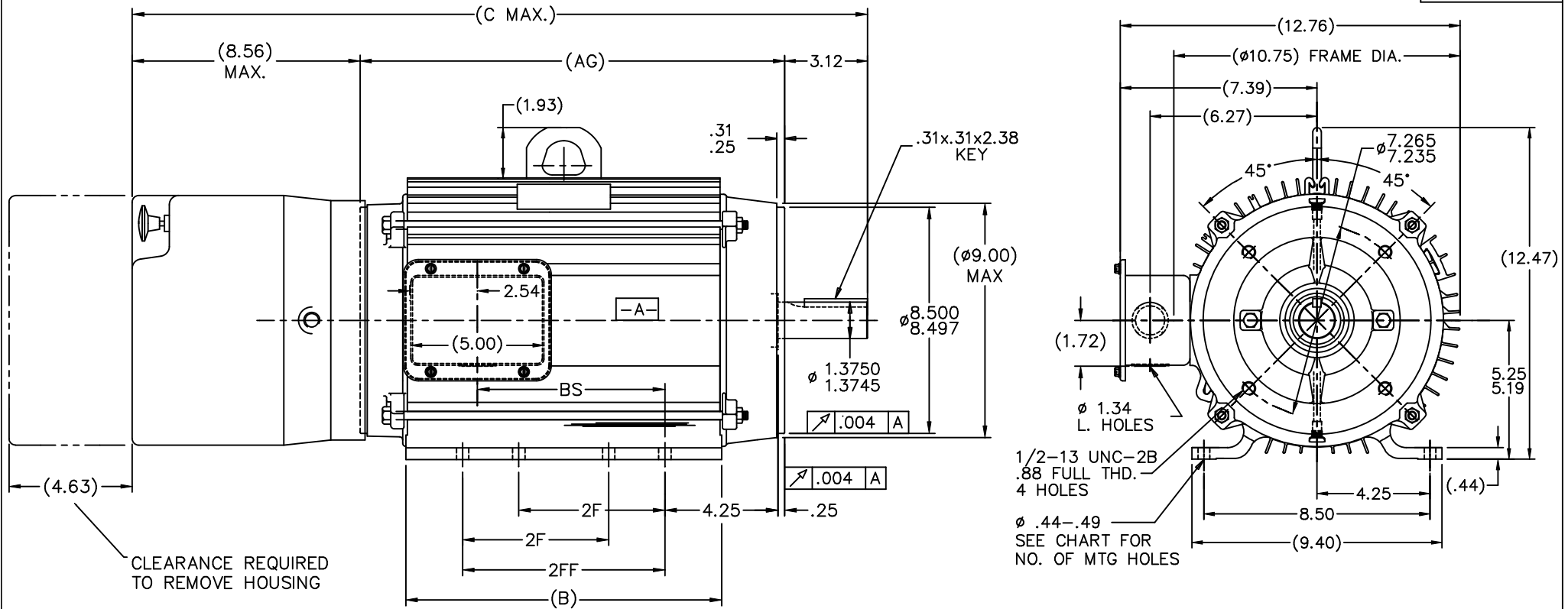
Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	1770 & 1475 rpm	Service Factor	1.0 & 1.0
Frame	213TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Efficiency	92.4 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	19.2/9.6 & 16.4/8.2 A	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6307
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.02 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Shaft Diameter	1.375 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	B-SS330106-1175	Connection Drawing	A-EE7308

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CLEARANCE REQUIRED TO REMOVE HOUSING

- NOTES:
 1. BOX CAN BE ROTATED IN 180° STEPS.
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 3. SEE CHART FOR F2 CAPABILITY. IF YES, BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°

DASH	FR.	B	C	2F	2FF	AG	BS	F2 CAPABLE	NO. OF MTG HOLES
875	213	8.87	24.64	5.50	—	12.96	4.05	YES	8
950	213	9.62	25.39	5.50	—	13.71	4.80	NO	4
1025	213	10.37	26.14	5.50	—	14.46	5.55	NO	4
1025	215	10.37	26.14	7.00	—	14.46	5.55	YES	8
1115	213/215	11.27	27.04	5.50	/7.00	15.36	6.45	YES	8
1175	213	11.87	27.64	5.50	—	15.96	7.05	YES	8
1175	215	11.87	27.64	7.00	—	15.96	7.05	NO	4
1275	213	12.87	28.64	5.50	—	16.96	8.05	YES	8
1275	215	12.87	28.64	7.00	—	16.96	8.05	YES	8

		TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT CORPORATION		DRAWING/MLIST 03-02-05	
		DEC.	INCHES	REGAL-BELOIT CORPORATION		CHK	ML 10-11-05
		.X	±.1	TITLE OUTLINE		APPD	GK 10-11-05
		.XX	±.03	210 TC FR. - STEARNS 87,000 SERIES BRK		SCALE	9-32
		.XXX	±.005	MATL		REF	
1 ADDED "2FF" COLUMN CN40215		.XXXX	±.0005	FINISH		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	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	CAD FILE ss330106	SIZE	DRAWING NO. PAGE 1 OF 1 REV.
				DIST		B	SS330106 1

EE7308

THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02			SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±7'30"			PREV				
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							DIST WP					



Regal Beloit America, Inc.



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

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: A-EE7308
OUTLINE: B-SS330106-1175
WINDING #: K2154380 R5 1

CUSTOMER PO#:
MODEL #: 213TTTL16038 AA
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	1800	1770&1475	213TC	TENV	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	19.2/9.6&16.4/8.2	ACROSS THE LINE	CONTINUOUS	F3	1.0/1.0	40

FULL LOAD EFF:	92.4&91	3/4 LOAD EFF:	92.4	1/2 LOAD EFF:	91.7	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	79&75	3/4 LOAD PF:	74	1/2 LOAD PF:	62	91.7		SQ CAGE IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.2 LB-FT	127 / 63.5	50 LB-FT 225 %	62 LB-FT 279 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.15 LB-FT^2	50 LB-FT^2	25 SEC.	2	150 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
6309	6307						

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

* HORIZONTAL, RIGID BASE C-FACE, T-SHAFT
STEARNS 87,000, 35 FT-LB, NEMA 2,
230/460 VOLT BRAKE

N

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: REGAL SUPPLIED AND MOUNT NONE
STEARNS P/N 66378-34
87,000 NEMA 2
35 FT-LB 208-230/460-190/380 V
60/50 Hz

PREPARED BY: Dinesh
Suddula **DATE:**
02/14/2019 02:09:32 AM
FORM 3531 REV.3 02/07/99
** Subject to change without
notice.

Data Sheet

Date: 1/4/2019
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



213TTTL16038

Submittal

Data @ 460 V

Motor Load Data

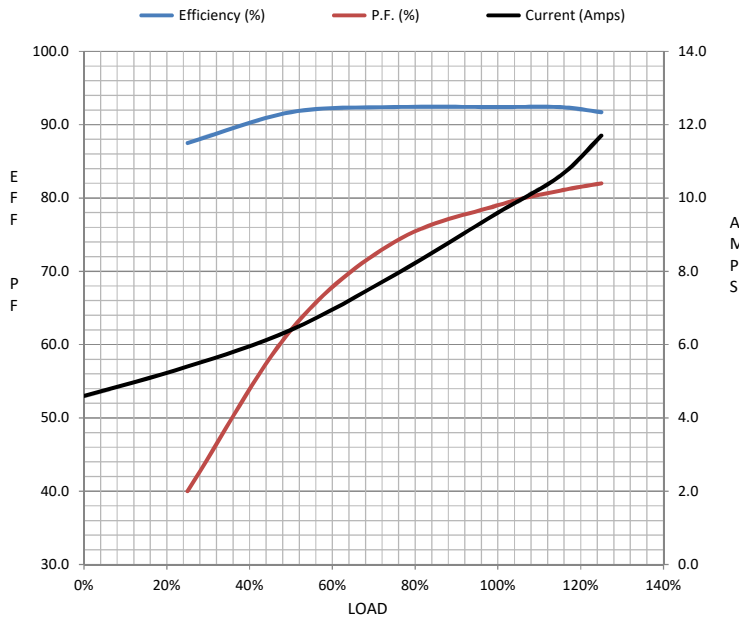
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.6	5.4	6.4	7.9	9.6	10.6	11.7	63.5
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.2	25.8	28.0	50.0
RPM	1800	1794	1785	1778	1770	1,762	1760	0
Efficiency (%)		87.5	91.7	92.4	92.4	92.4	91.7	
P.F. (%)	5.0	40.0	62.0	74.0	79.0	81.0	82.0	40.0

Motor Speed Data

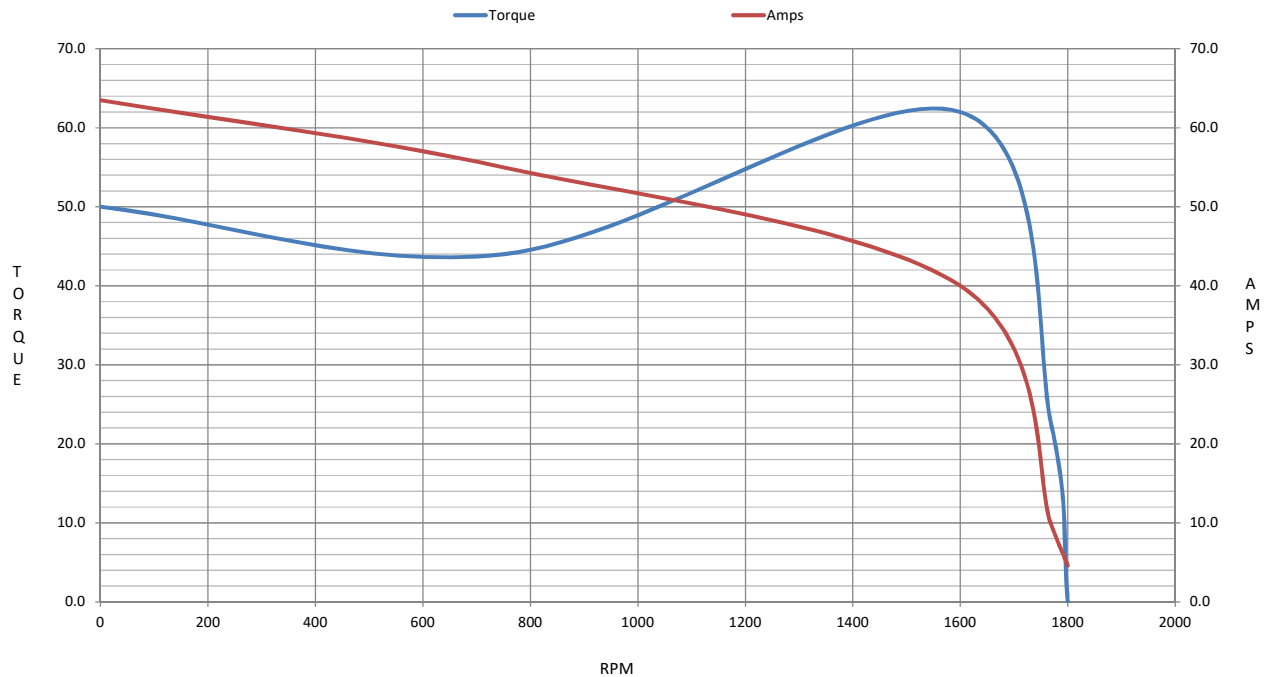
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1600	1770	1800
Current (Amps)	63.5	55.0	40.0	9.6	4.6
Torque (ft-lb)	50.0	44.0	62.0	22.2	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	215			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	60 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.15 Lb-Ft ²			
Ref Wdg	K2154380 R5			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS330106-1175			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.6010	0.5370	2.4460	3.9540	61.9920



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 : 213TTTL16038

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

Catalog No : C407A

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