

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215THTL7736

Catalog No: Y561

Black Max® Inverter Duty Speed Ratio Motor, 10 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 215TC Frame, TENV



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RegalRexnord

Nameplate Specifications

Phase	3	Output HP	10 Hp
Output KW	7.5 kW	Voltage	575 V
Speed	1774 rpm	Service Factor	1.0
Frame	215TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Efficiency	90.2 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	10.8 A	Power Factor	76
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	M
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.59 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	23.04 in
Frame Length	12.75 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 1000:1		
Outline Drawing	B-SS330105-1275	Connection Drawing	A-EE7300T

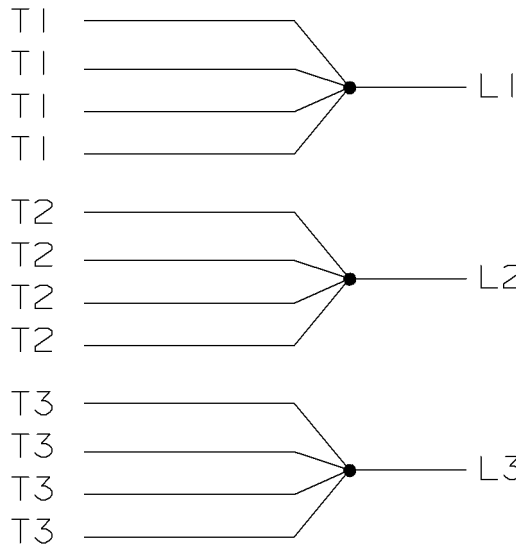
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

A- EE7300T

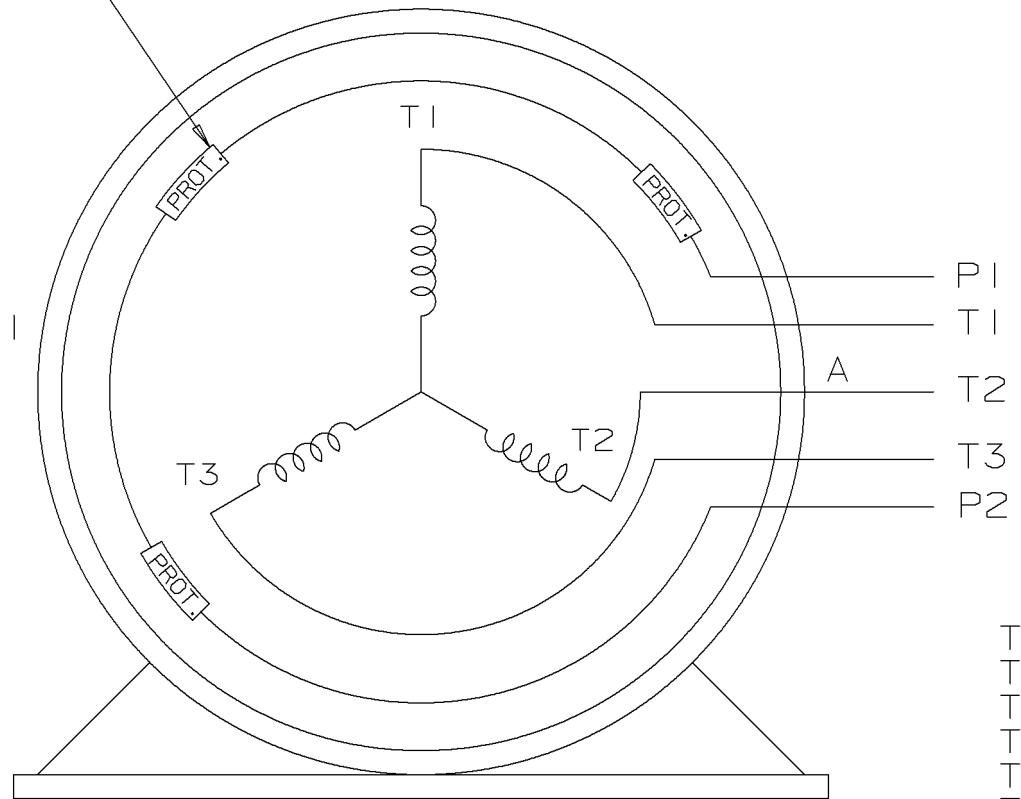
TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

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

IF MOTOR HAS 12 LEADS



3 THERMO - PROTECTORS
CONNECTED IN SERIES.



VIEW OF TERMINAL END

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

				✓ MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± XXX±.005 XXXX±.0005 ANGLES±			
1 4	06-03-97	ADDED SURGE TESTER NOTE - FOR FACTORY USE ONLY						

SHOP BOOK

PURCHASED

DISTRIBUTION - WA - LB - WP - LM - YK

CADD FILE NO.

EE7300TX

CERTIFICATION DATA SHEET

Model#: 215THTL7736 CC
 CONN. DIAGRAM: A-EE7300T
 OUTLINE: B-SS330105-1275

WINDING#: K2154304 NONE 5
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1800	1774	215TC	TENV	M	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	10.8	INVERTER ONLY	CONTINUOUS	F3	1.0	40	3300

FULL LOAD EFF: 90.2	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76	3/4 LOAD PF: 69	1/2 LOAD PF: 56	88.5	SQ CAGE INV DUTY	5.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.6 LB-FT	100	110 LB-FT 372	125 LB-FT 422	90

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.3 LB-FT^2	0 LB-FT^2	0 SEC.	0	175 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.284	0.284	1.42	2.272	34.932

RM	ZREF	XR	TD	TD0
1417.16	28.4	3.8	0.01	0.29

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6309	6206	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM

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

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INVERTER TORQUE: CONSTANT 1000:1
 INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: PROVISIONS ONLY
 NONE NONE
 NONE NONE PPR

BRAKE: PROVISIONS ONLY NONE
 NONE P/N NONE

NONE	NONE		
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/22/2017 07:08:59 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



215HTL7736

Submittal

Data @ 575 V

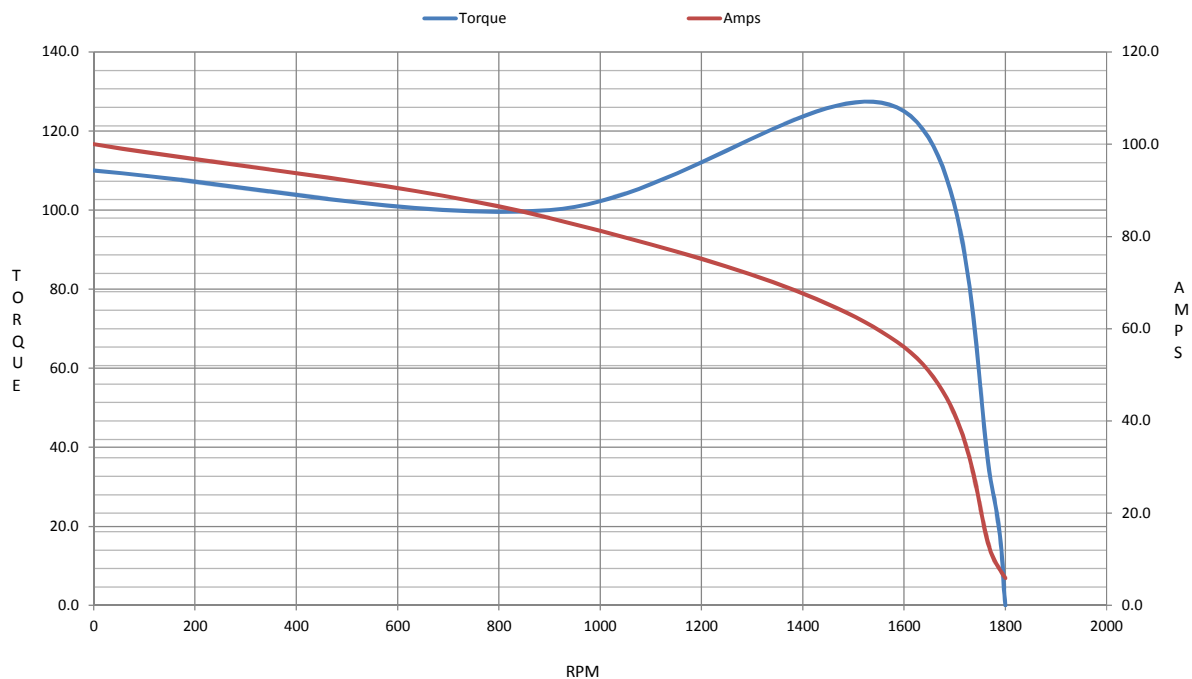
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.9	6.4	7.6	9.0	10.8	11.8	12.8	100	
Torque (ft-lb)	0.00	7.5	14.7	22.2	29.6	33.4	37.2	110	
RPM	1800	1792	1786	1780	1774	1,771	1766	0	
Efficiency (%)		82.5	87.5	90.2	90.2	90.2	90.2		
P.F. (%)	7.0	36.0	56.0	69.0	76.0	78.0	80.0	43.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																																											
Speed (RPM)	0	900	1600	1774	1800	HP	10.0																																										
Current (Amps)	100	84.0	56.0	10.8	5.9	Sync. RPM	1800																																										
Torque (ft-lb)	110	100	125	29.6	0.00	Frame	215																																										
Efficiency (%) P.F. (%) Current (Amps) <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0%</td><td></td><td></td><td>6.0</td></tr><tr><td>20%</td><td></td><td></td><td>6.2</td></tr><tr><td>25%</td><td>82.0</td><td>1.5</td><td>6.5</td></tr><tr><td>40%</td><td>86.0</td><td>3.5</td><td>7.2</td></tr><tr><td>60%</td><td>89.0</td><td>6.0</td><td>8.2</td></tr><tr><td>80%</td><td>90.0</td><td>7.5</td><td>9.5</td></tr><tr><td>100%</td><td>90.0</td><td>8.0</td><td>11.0</td></tr><tr><td>120%</td><td>90.0</td><td>8.0</td><td>12.2</td></tr><tr><td>125%</td><td>90.0</td><td>8.0</td><td>12.5</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%			6.0	20%			6.2	25%	82.0	1.5	6.5	40%	86.0	3.5	7.2	60%	89.0	6.0	8.2	80%	90.0	7.5	9.5	100%	90.0	8.0	11.0	120%	90.0	8.0	12.2	125%	90.0	8.0	12.5	Enclosure	TENV		
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						Construction	TTL																																										
						Voltage	575 V																																										
						Frequency	60 Hz																																										
						Design	A																																										
						LR Code letter	M																																										
						Service Factor	1.0																																										
Temp Rise @ FL	90 ° C																																																
Duty	CONT																																																
Ambient	40 ° C																																																
Elevation	1,000 feet																																																
Rotor/Shaft wk ²	1.30 Lb-Ft ²																																																
Ref Wdg	K2154304 NONE																																																
Sound Pressure @ 1M	62 dBA																																																
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Additional Specifications:																																																	
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EQUIV CKT (OHMS / PHASE)																																																	
R1		R2		X1		X2		Xm																																									
0.4440		0.4440		2.2190		3.5500		54.5810																																									

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 : 215THTL7736

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

Catalog No : Y561

Rework No : N/A

Directives :

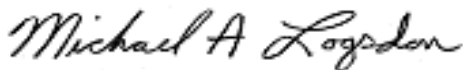
Low Voltage Directive 2014/35/EU

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