

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256THTL5776

Catalog No: Y548

Black Max® Inverter Duty Speed Ratio Motor, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 256TC Frame,
TENV



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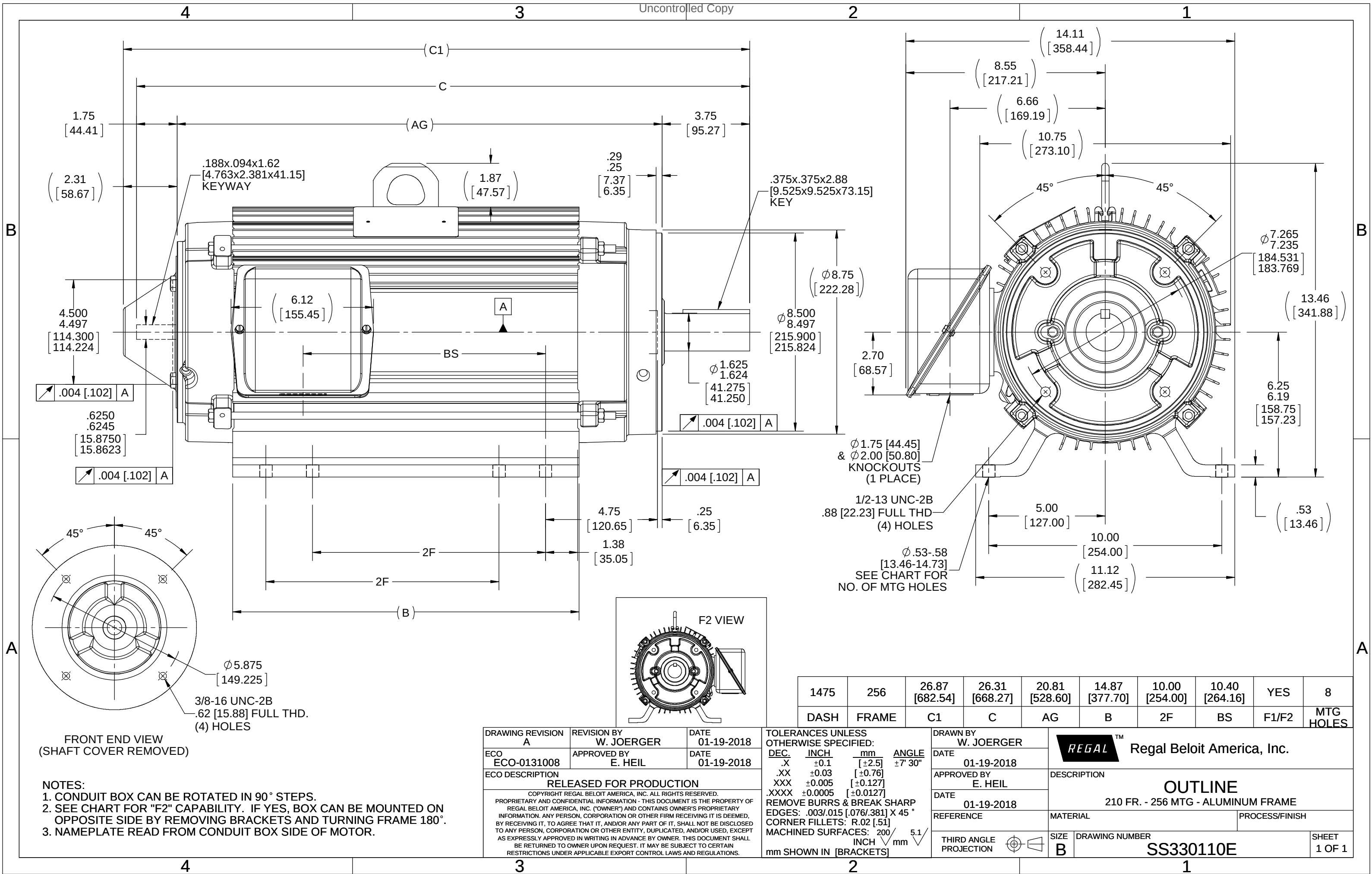
RegalRexnord

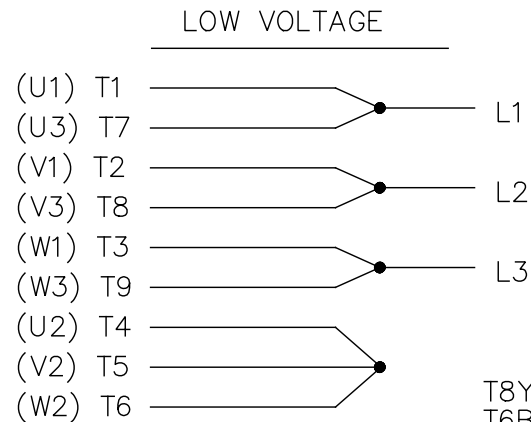
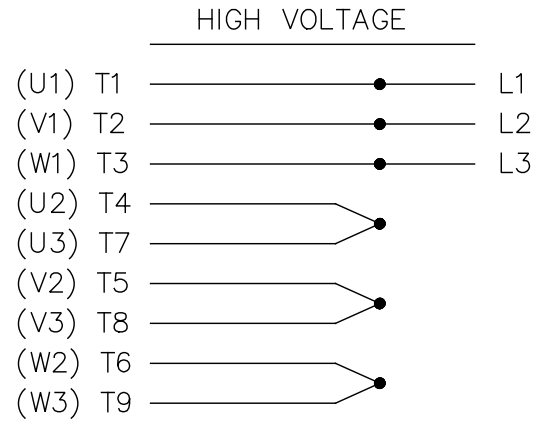
Nameplate Specifications

Phase	3	Output HP	10 Hp
Output KW	7.5 kW	Voltage	230/460 V
Speed	1160 rpm	Service Factor	1.0
Frame	256TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Efficiency	89.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	28.0/14.0 A	Power Factor	75.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	J
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

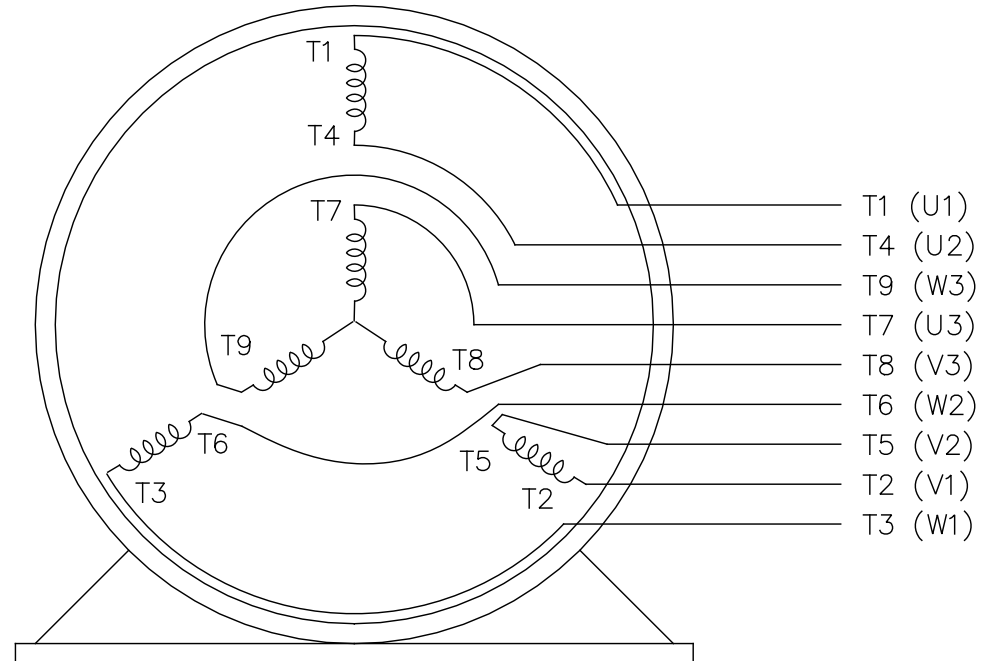
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	6	Rotation	Reversible
Resistance Main	.765 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	26.87 in
Frame Length	14.75 in	Shaft Diameter	1.625 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 1000:1		
Outline Drawing	B-SS330110E-1475	Connection Drawing	A-EE7308T





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

DRAWING REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN BY:			
ECO	APPROVED BY	DATE	DEC. mm INCH ANGLE .X ±2.5 [±0.1] ±0.5° .XX ±0.51 [±0.02] .XXX ±0.127 [±0.005] .XXXX ±0.0127 [±0.0005]	AS DATE: 02/20/2017			
ECO DESCRIPTION NEW DRAWING			REMOVE BURRS & BREAK SHARP EDGES .08/.38 [0.03/.015] X 45° CORNER FILLETS R.51 [0.2]	APPROVED BY:	DESCRIPTION CONNECTION DIAGRA 3 PHASE - UAL VOLTAGE		
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				REFERENCE EE7308	MATERIAL	PROCESS/FINISH	
				THIRD ANGLE PROJECTION	SIZE DWG NO A EE7308TP		SHEET 1

CERTIFICATION DATA SHEET

Model#: 256THL5776 DH
CONN. DIAGRAM: A-EE7308T
OUTLINE: B-SS330110-1475

WINDING#: K2156158 NONE 1
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1200	1160	256TC	TENV	J	INV

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	28/14	INVERTER ONLY	CONTINUOUS	F3	1.0	40	3300

FULL LOAD EFF: 89.5	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 75.5	3/4 LOAD PF: 69	1/2 LOAD PF: 57	87.5	SQ CAGE INV DUTY	14 / 7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
45.3 LB-FT	194 / 97	103 LB-FT 227	135 LB-FT 298	100

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	1.5 LB-FT^2	0 LB-FT^2	0 SEC.	0	229 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.53392	0.69296	2.2578	2.32312	30.53

RM	ZREF	XR	TD	TD0
2925.2	28.4	4	0.0085	0.125

*** 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

INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED
ENCODER: PROVISIONS ONLY NORTHSTAR ST56 NONE NONE PPR
BRAKE: PROVISIONS ONLY NONE NONE P/N NONE

*
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NONE	NONE	
NONE FT-LB	NONE V	NONE Hz

DATE: 06/23/2017 04:57:31 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 15-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

256THTL5776



Submittal

Data @ 460 V

Motor Load Data

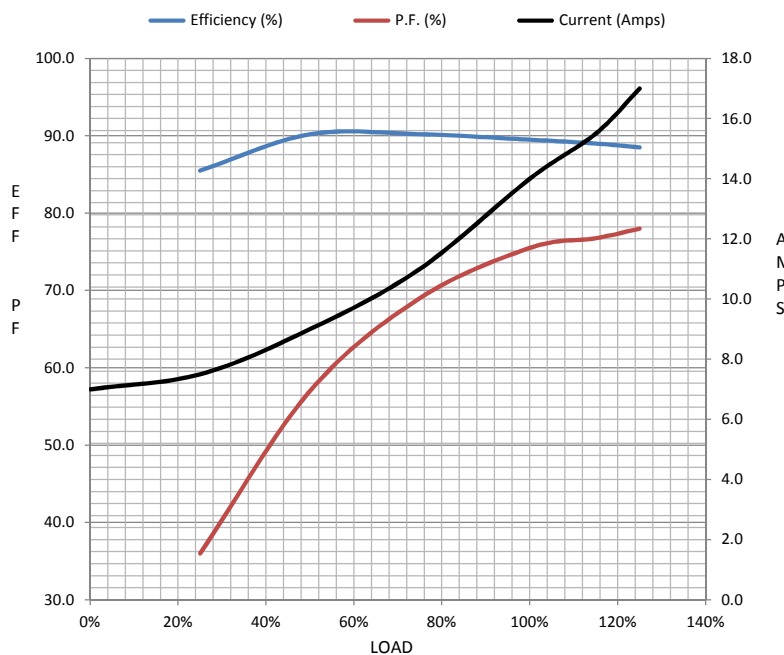
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.0	7.5	9.0	11.0	14.0	15.5	17.0	97.0	
Torque (ft-lb)	0.00	11.0	22.2	33.5	45.3	48.9	52.5	103	
RPM	1200	1190	1180	1170	1160	1,156	1150	0	
Efficiency (%)		85.5	90.2	90.2	89.5	89.0	88.5		
P.F. (%)	4.5	36.0	57.0	69.0	75.5	76.8	78.0	42.0	

Motor Speed Data

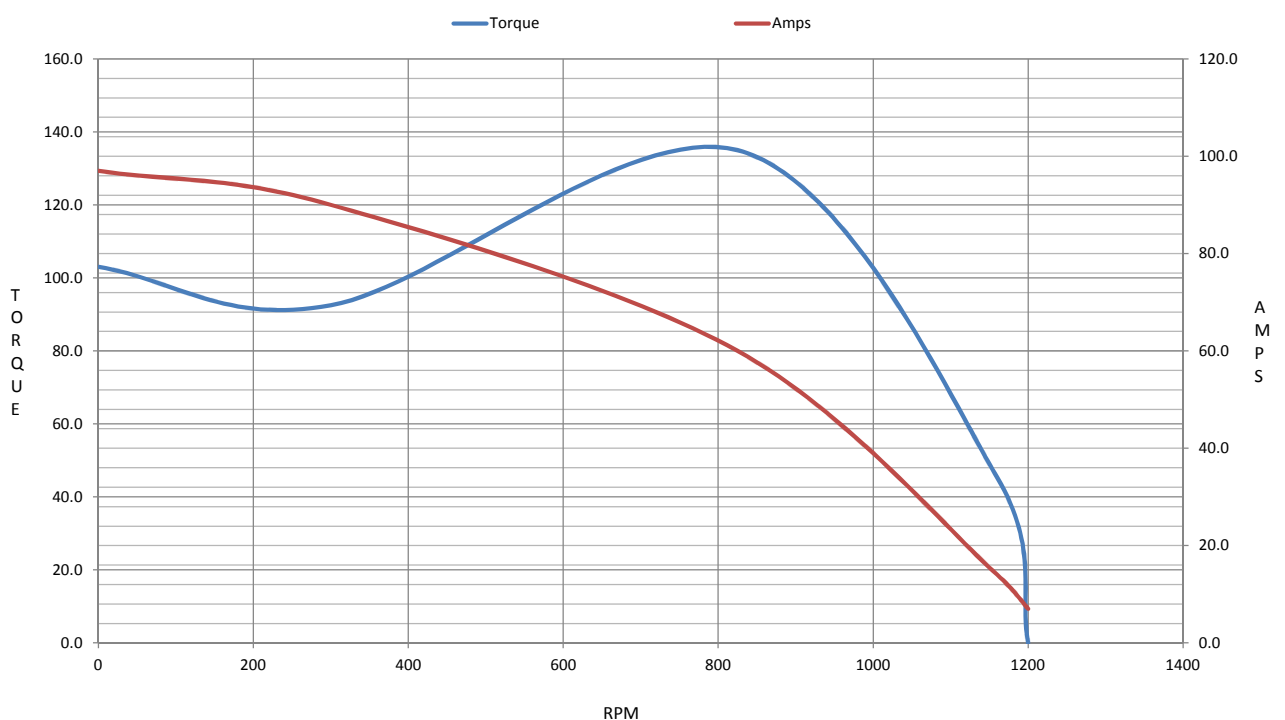
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	300	825	1160	1200
Current (Amps)	97.0	90.0	60.0	14.0	7.0
Torque (ft-lb)	103	92.5	135	45.3	0.00

Information Block

HP	10.0			
Sync. RPM	1200			
Frame	256			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	J			
Service Factor	1.0			
Temp Rise @ FL	100 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.50 Lb-Ft ²			
Ref Wdg	K2156158 NONE			
Sound Pressure @ 1M	60 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	B-SS330110-1475			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.5340	0.6930	2.2580	2.3230	30.5300



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 : 256THTL5776

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

Catalog No : Y548

Rework No : N/A

Directives :

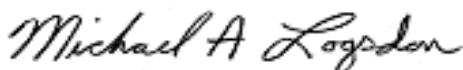
Low Voltage Directive 2014/35/EU

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