

PRODUCT INFORMATION PACKET

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



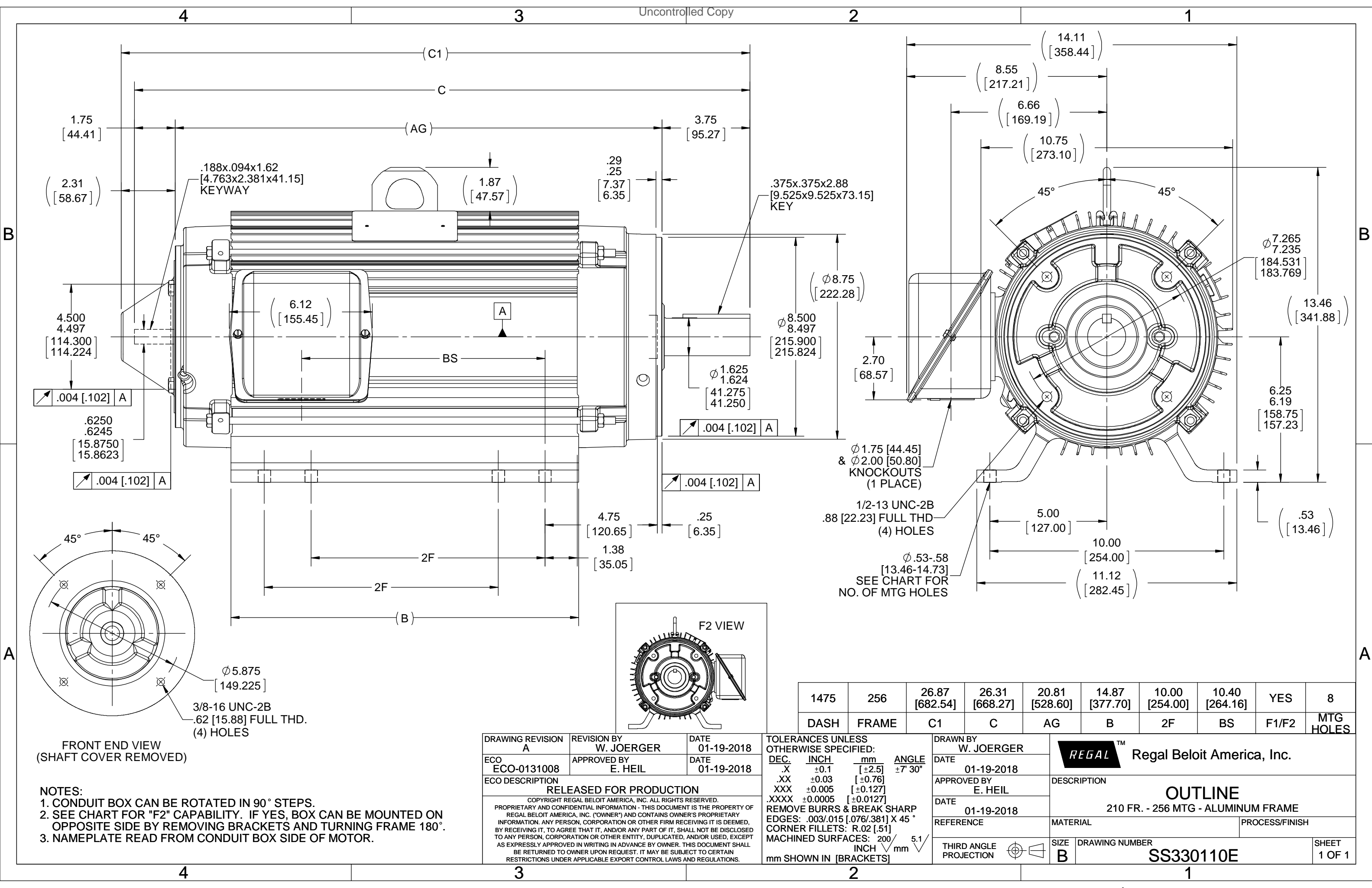
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Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	28.0/14.0 A	Speed	1160 rpm
Service Factor	1	Phase	3
Efficiency	89.5 %	Power Factor	75.5
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	J
Frame	256TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
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



- NOTES:**
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. SEE CHART FOR "F2" CAPABILITY. IF YES, BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE READ FROM CONDUIT BOX SIDE OF MOTOR.

DRAWING REVISION A	REVISION BY W. JOERGER	DATE 01-19-2018
ECO ECO-0131008	APPROVED BY E. HEIL	DATE 01-19-2018
ECO DESCRIPTION RELEASED FOR PRODUCTION		
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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/mm 5.1

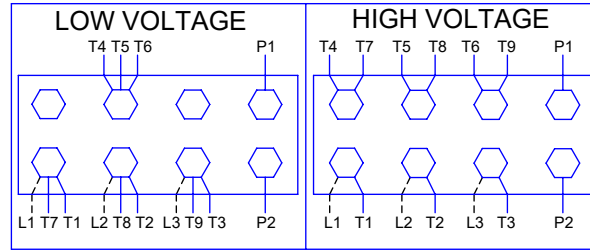
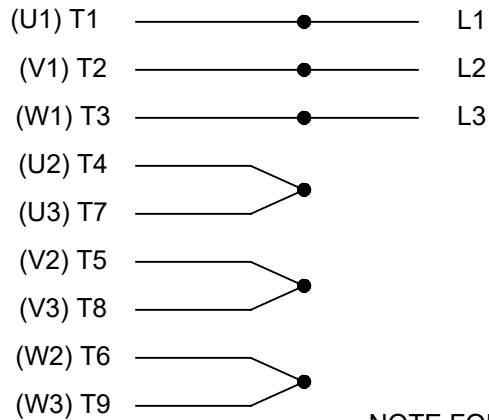
mm SHOWN IN [BRACKETS]

DRAWN BY W. JOERGER
DATE 01-19-2018
APPROVED BY E. HEIL
DATE 01-19-2018
REFERENCE
THIRD ANGLE PROJECTION

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE	
210 FR. - 256 MTG - ALUMINUM FRAME	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS330110E
	SHEET 1 OF 1

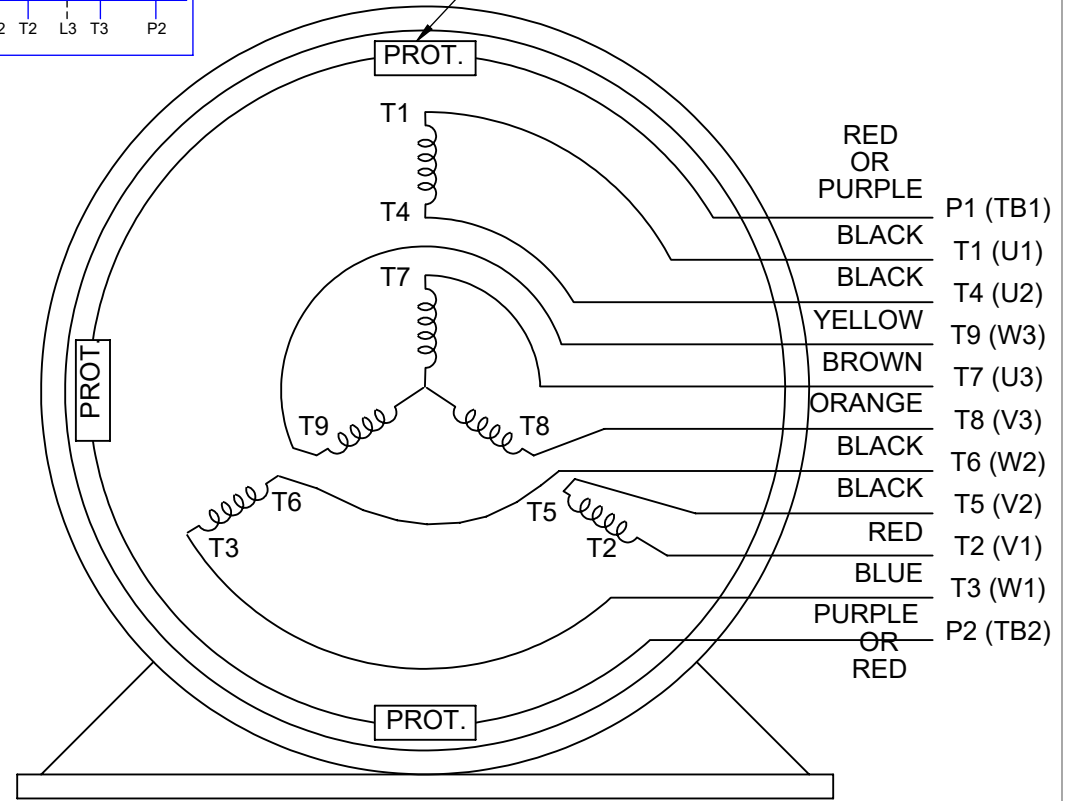
1475	256	26.87 [682.54]	26.31 [668.27]	20.81 [528.60]	14.87 [377.70]	10.00 [254.00]	10.40 [264.16]	YES	8
DASH	FRAME	C1	C	AG	B	2F	BS	F1/F2	MTG HOLES

HIGH VOLTAGE



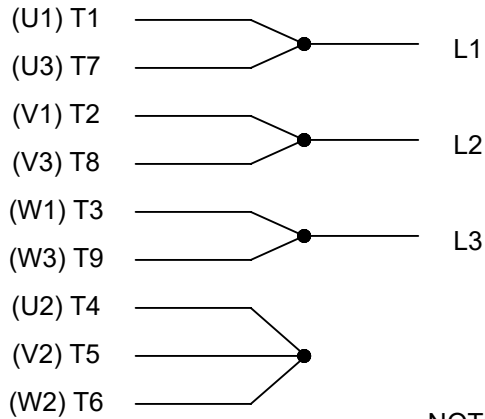
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



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



VIEW OF TERMINAL END

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

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992	
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T

CERTIFICATION DATA SHEET

Model#: 256HTL5776 DH WINDING#: K2156158 NONE 1
 CONN. DIAGRAM: A-EE7308T ASSEMBLY: F1/F2 CAPABLE
 OUTLINE: B-SS330110-1475

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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
BALL	BALL						
6309	6206						

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

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



256THL5776

Submittal

Data @ **460 V**

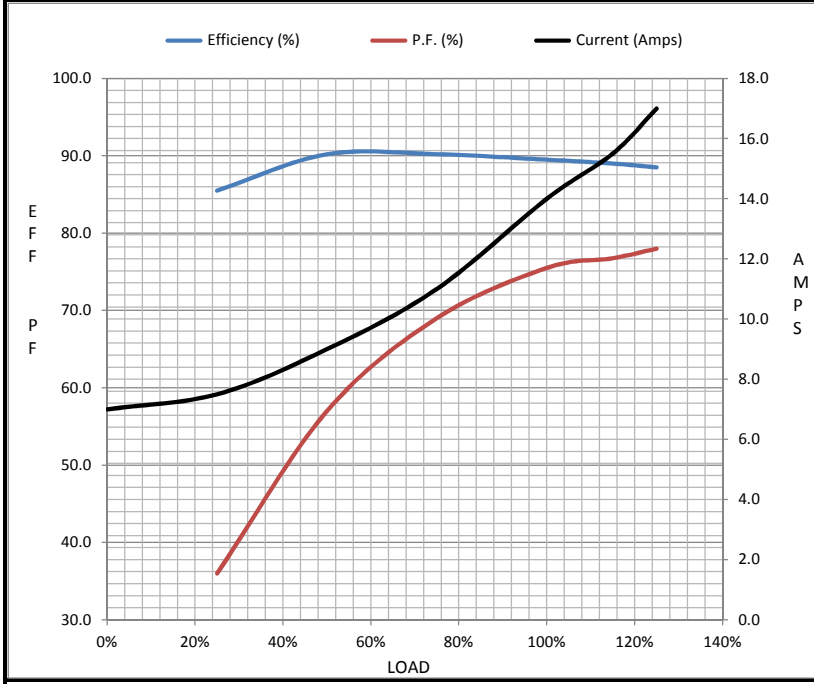
Motor Load Data

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

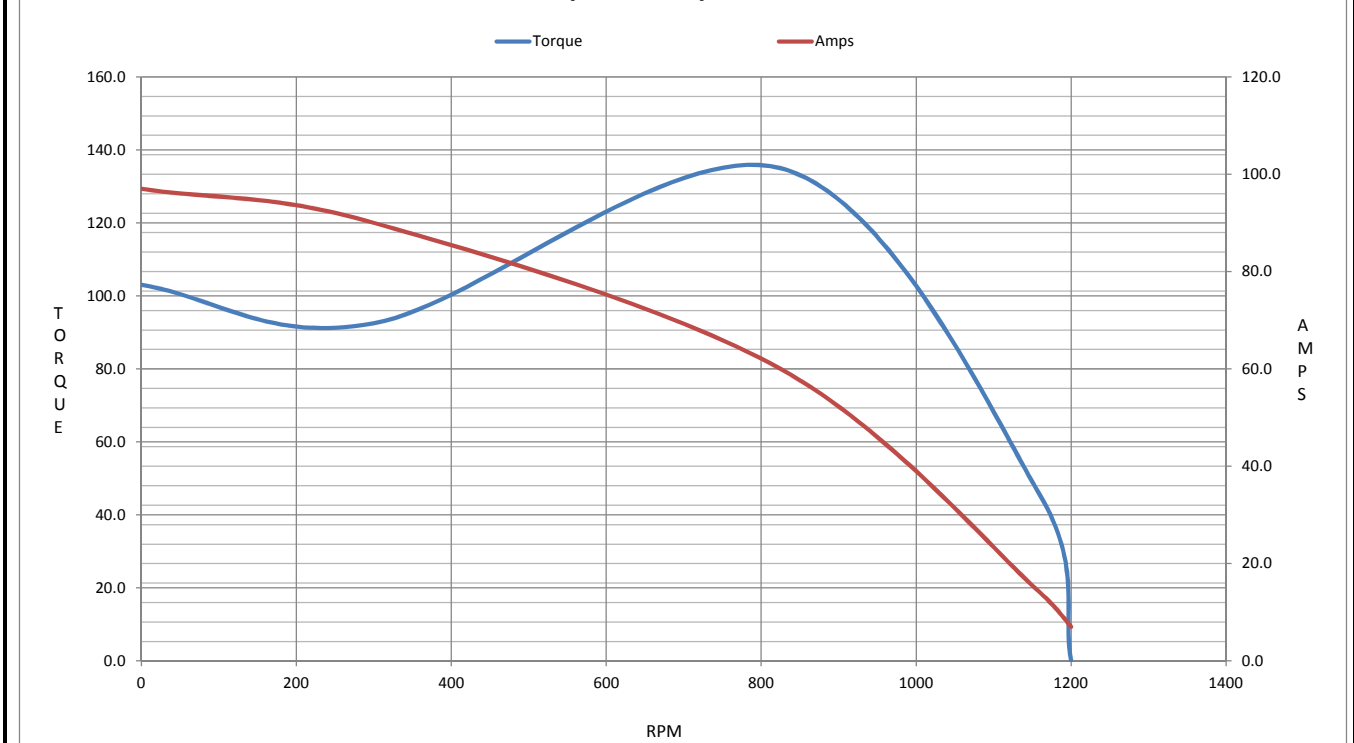
Motor Speed Data

	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 :

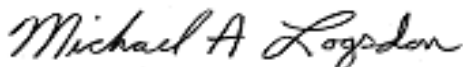
Low Voltage Directive 2014/35/EU

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