

# PRODUCT INFORMATION PACKET

Model No: 184THTCD8028

Catalog No: Y564A

Blue Max® Inverter Duty Encoder Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184TC Frame, TENV



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### Nameplate Specifications

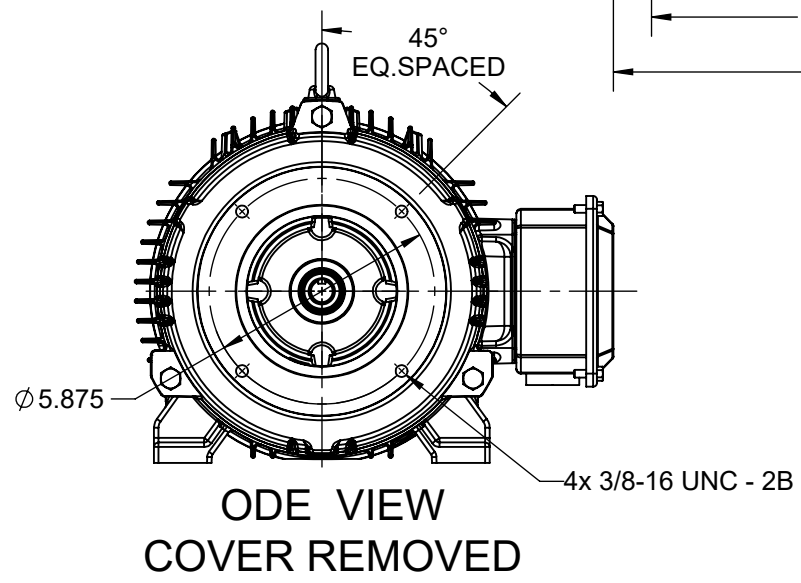
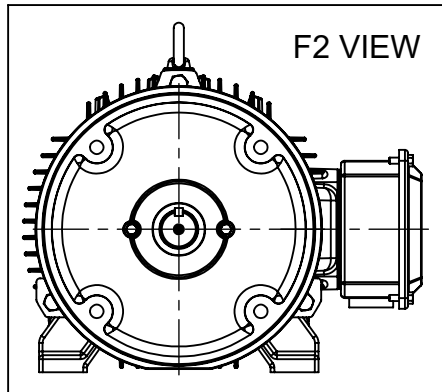
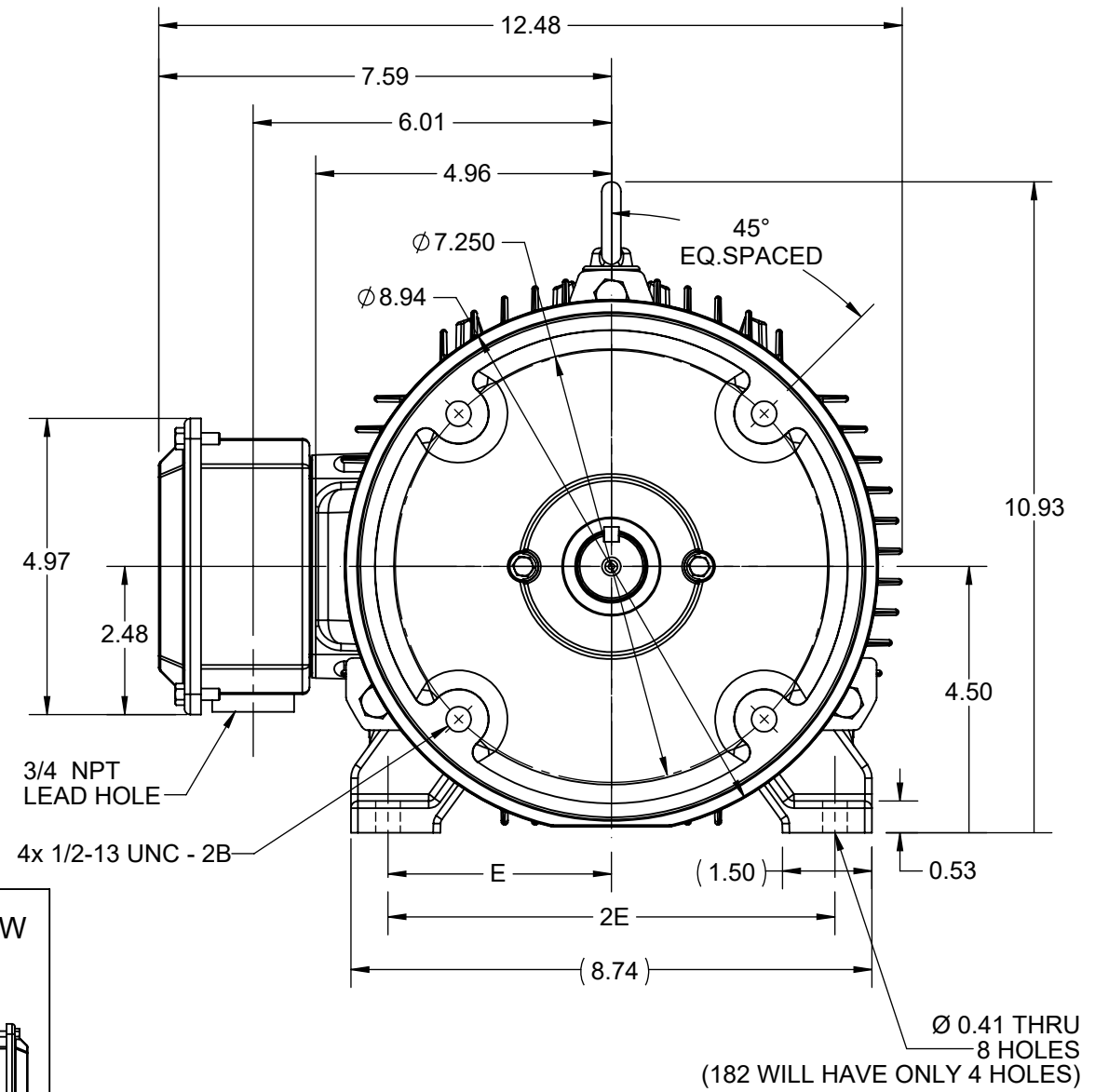
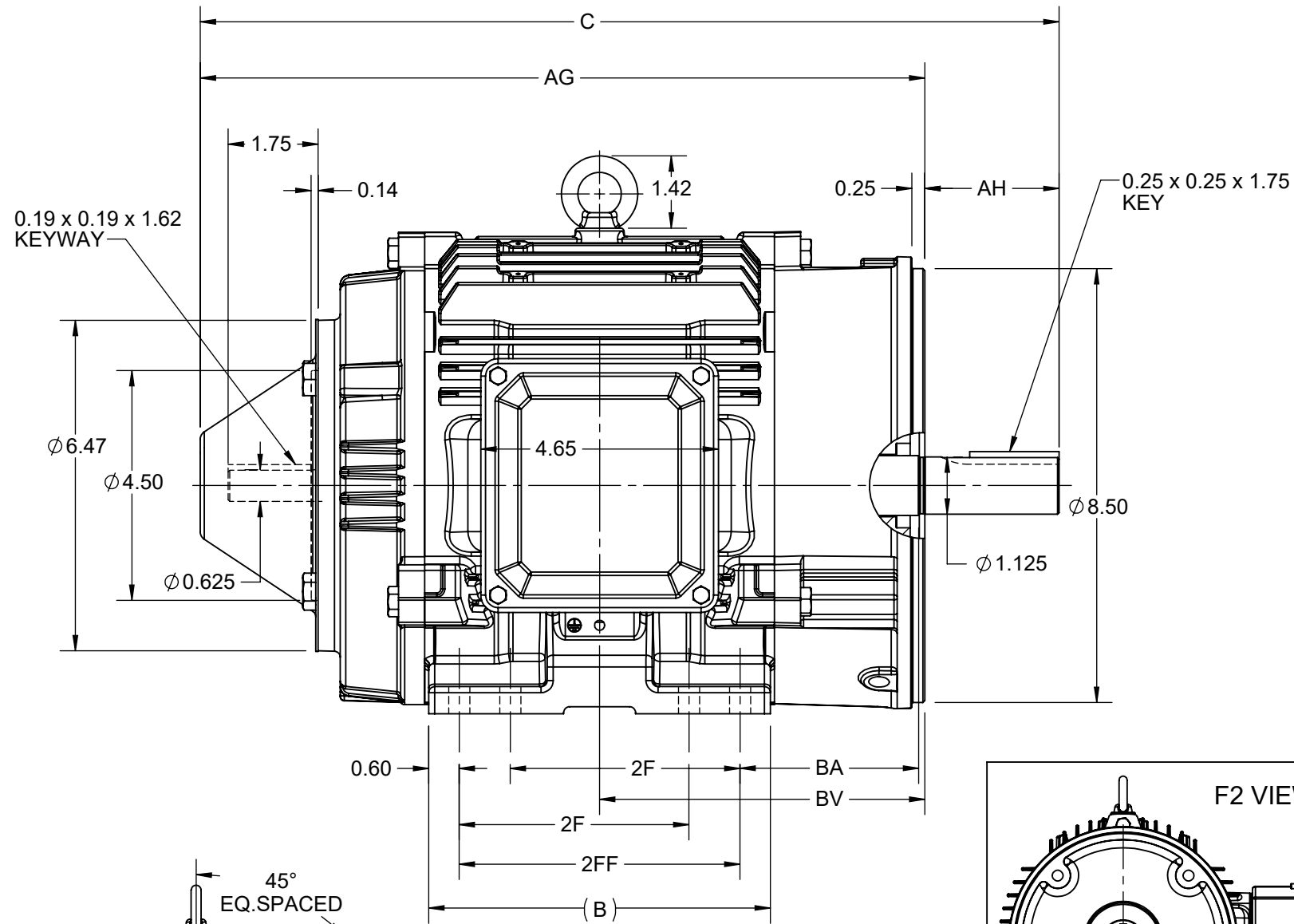
Phase	<b>3</b>	Output HP	<b>5 Hp</b>
Output KW	<b>3.7 kW</b>	Voltage	<b>230/460 V</b>
Speed	<b>1760 rpm</b>	Service Factor	<b>1.00</b>
Frame	<b>184TC</b>	Enclosure	<b>Totally Enclosed Non Ventilated</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>89.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 Hz</b>
Current	<b>13.0/6.5 A</b>	Power Factor	<b>77</b>
Duty	<b>Continuous</b>	Insulation Class	<b>H</b>
Design Code	<b>INV</b>	KVA Code	<b>L</b>
Drive End Bearing Size	<b>6206</b>	Opp Drive End Bearing Size	<b>6306</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>55</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Duty</b>	Starting Method	<b>Inverter Only</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>2.27 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Shaft Diameter	<b>1.125 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>	Inverter Load	<b>CONSTANT 2000:1</b>
Connection Drawing	<b>EE7308T</b>	Outline Drawing	<b>SS600239-200</b>

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DASH NO.	4			3				2			1	
	B	C	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	5.67	15.81	3.75	7.50	---	4.50	13.19	2.62	3.50	5.87	F1 OR F2	182TC
200	6.69	16.81			4.50	5.50	14.19			6.37		182/184TC



DRAWING REVISION A	REVISION BY VS	REV DATE/© DATE 28-01-2021
ECO CR-0000832	APPROVED BY MSH	DATE 28-01-2021
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DRAWN BY VS	<b>REGAL</b> ® Regal Beloit America, Inc.
DATE 28-01-2021	
APPROVED BY MSH	DESCRIPTION <b>OUTLINE</b> 182/184TC NEMA-ODE 4.5 AK BRKT-TENV
DATE 28-01-2021	MATERIAL PROCESS/FINISH
REFERENCE	SIZE <b>B</b>
THIRD ANGLE PROJECTION	DRAWING NUMBER <b>SS600239</b>
	SHEET 1 OF 1

**HIGH VOLTAGE**



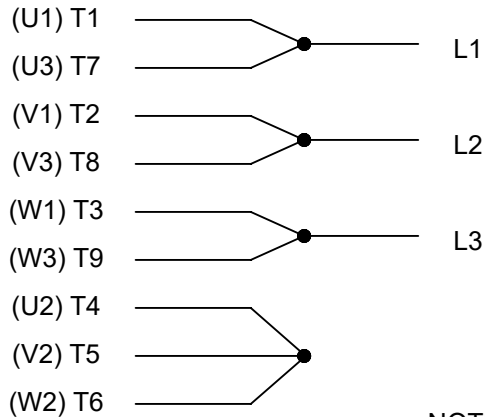
**THREE PHASE  
DUAL VOLTAGE MOTOR**

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 <b>ADDED TERMINAL CONNECTION DIAGRAM</b>				APPROVED BY TB	DESCRIPTION <b>CONN DIAGRAM-INTERNAL</b> 3 PHASE - DUAL VOLTAGE MOTOR	
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1
			THIRD ANGLE PROJECTION			

Data Sheet

Date: 7/27/2022  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_



184THTCD8028

Submittal

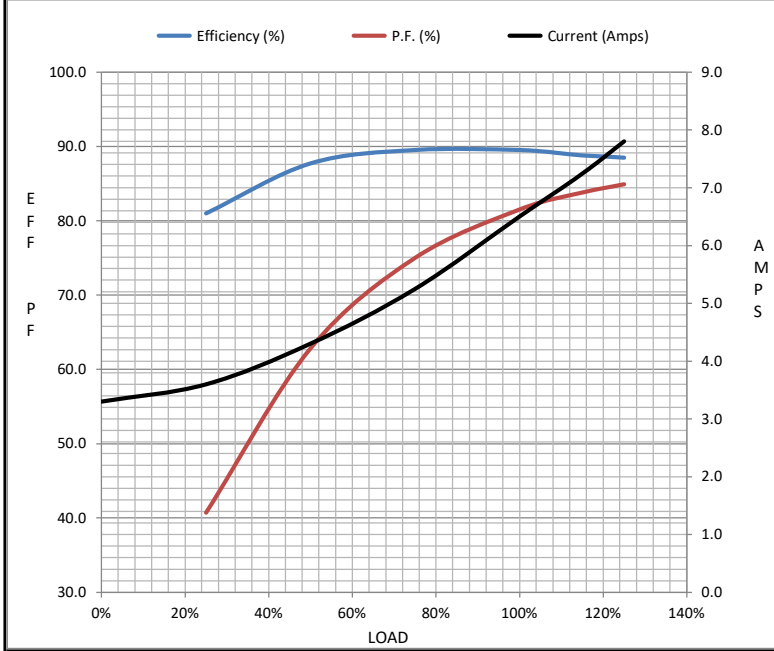
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.3	3.6	4.3	5.3	6.5	7.2	7.8	58.0
Torque (ft-lb)	0.00	3.7	7.4	11.1	14.9	17.2	18.8	43.0
RPM	1800	1790	1780	1770	1760	1,756	1750	0
Efficiency (%)		81.0	87.7	89.5	89.5	88.8	88.5	
P.F. (%)	7.9	40.7	62.8	75.0	81.5	83.8	84.9	55.1

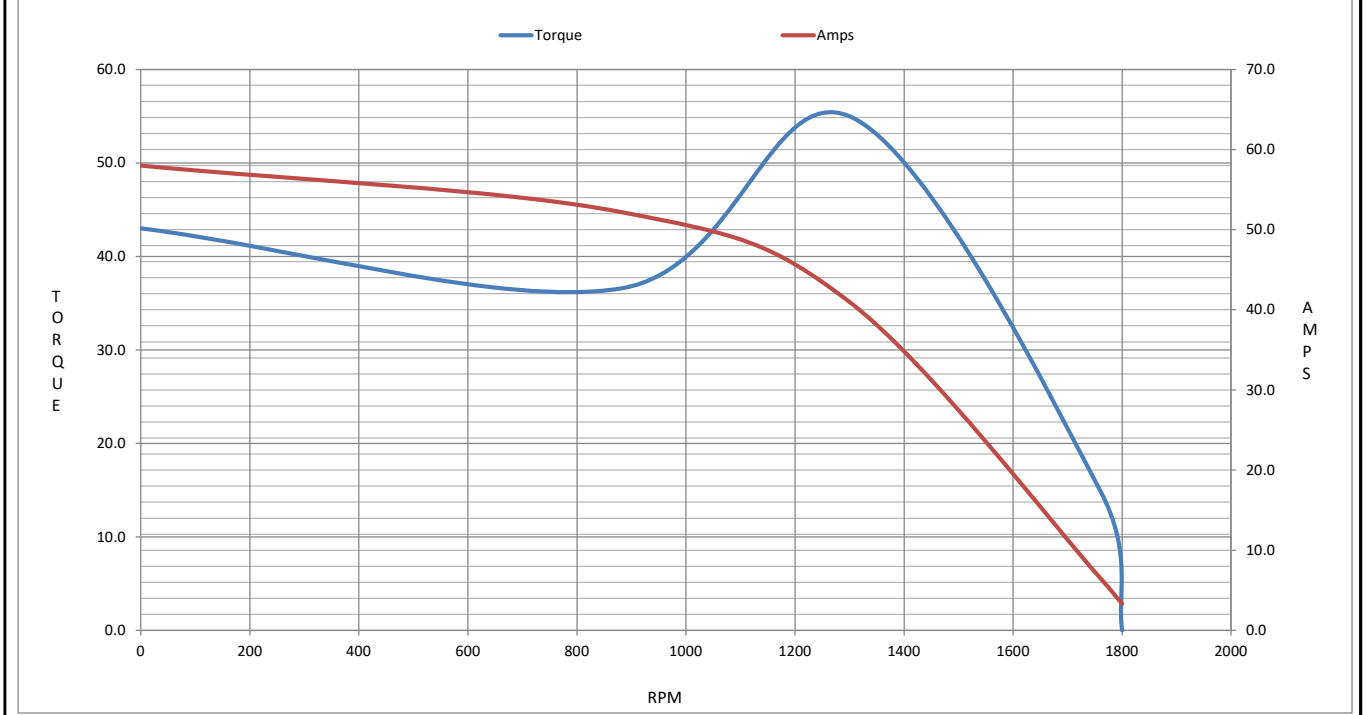
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	880	1300	1760	1800	HP	5.0
Current (Amps)	58.0	52.2	41.0	6.5	3.3	Sync. RPM	1800
Torque (ft-lb)	43.0	36.6	55.0	14.9	0.00	Frame	184



Enclosure	TENV			
Construction	TTC			
Voltage	230/460 V			
Frequency	60 Hz			
Design	INV			
LR Code letter	L			
Service Factor	1.0			
Temp Rise @ FL	105 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk <sup>2</sup>	0.40 Lb-Ft <sup>2</sup>			
Ref Wdg	HA31124031 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg				
Conn. Diag	EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.5310	1.0770	3.2150	3.6400	80.4010

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 : 184THTCD8028

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

Catalog No : Y564A

Rework No : N/A

Directives :

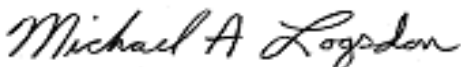
Low Voltage Directive 2014/35/EU

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**