

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 449TTDN16077

Catalog No: U790

XRI® General Purpose General Purpose Motor, 300 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V,
1200 & 1000 RPM, 449T Frame, DP



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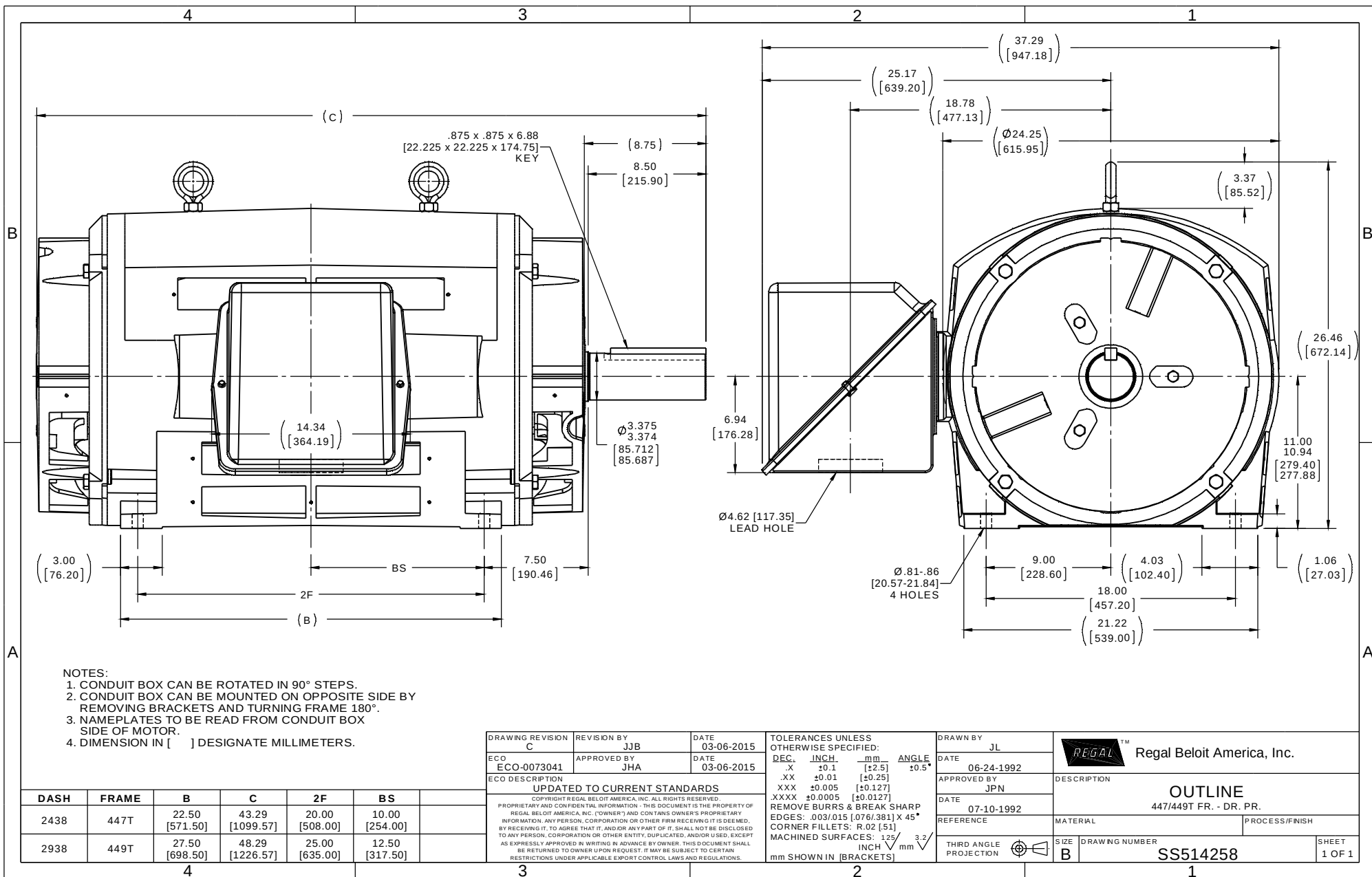
RegalRexnord

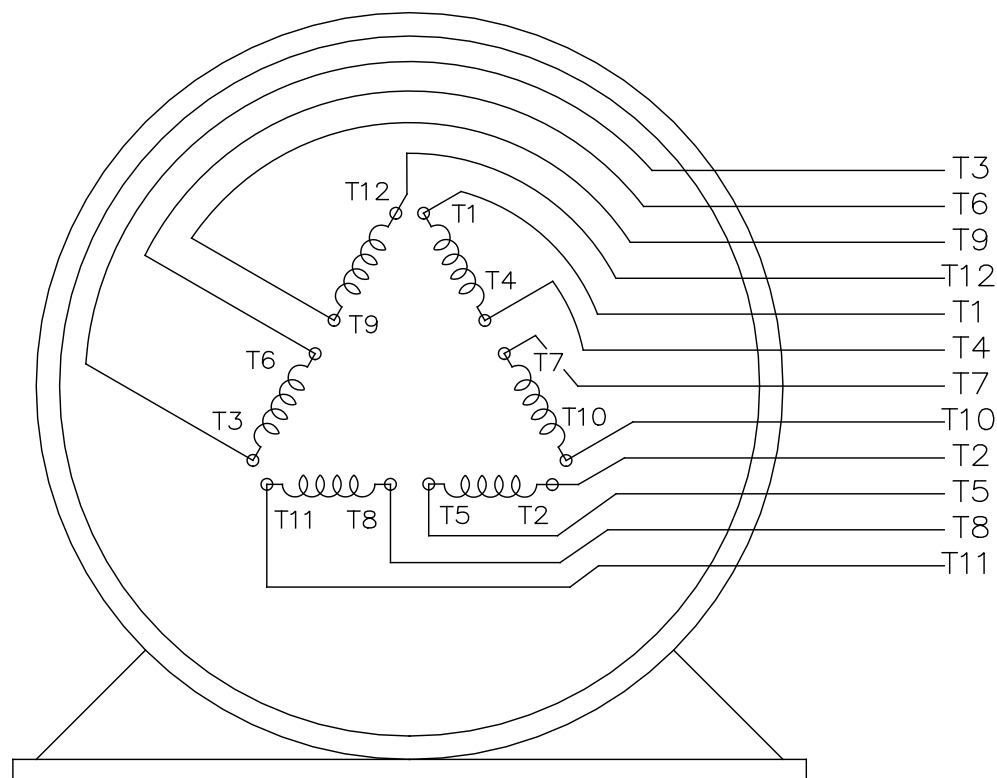
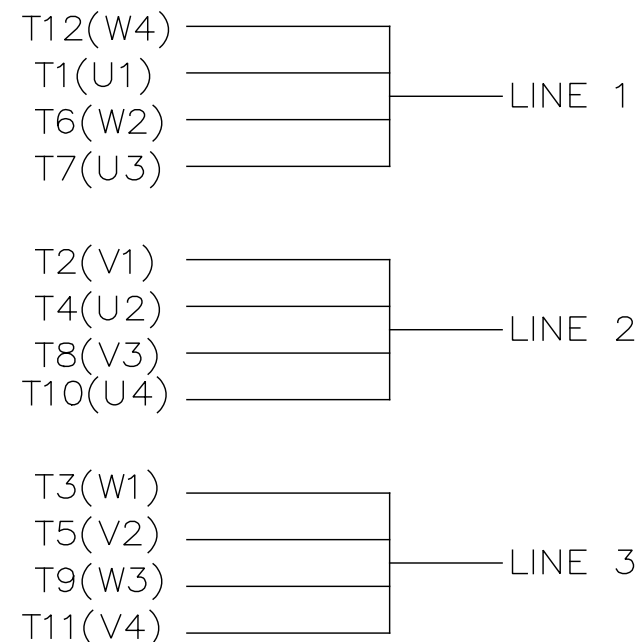
Nameplate Specifications

Phase	3	Output HP	300 & 250 Hp
Output KW	224.0 & 187.0 kW	Voltage	460 & 380 V
Speed	1185 & 985 rpm	Service Factor	1.15 & 1.15
Frame	449T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	365 & 370 A	Power Factor	80.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	6	Rotation	Reversible
Resistance Main	.014 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	48.29 in
Frame Length	29.38 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS514258-2938	Connection Drawing	EE7300BH



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005				
				DEC.	INCHES		CHK	ML	02-11-2005		
				.X	±.1		APPD	GK	02-11-2005		
				.XX	±.02		SCALE				
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX	±.005	TITLE CONNECTION DIAGRAM 12 LEAD- SINGLE VOLTAGE			REF	
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.XXXX	±.0005	MAT'L.			FMF	
NO.	REVISION		BY & DATE	CHK	ANG	±7'30"	FINISH			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 02-11-2005		CAD FILE ee7300bh		SIZE	DRAWING NO.	PAGE OF	REV.
				DIST LB				A	EE7300BH		C

CERTIFICATION DATA SHEET

Model#: 449TTDN16077 AA
 CONN. DIAGRAM: A-EE7300BH
 OUTLINE: B-SS514258-2938

WINDING#: T449670 NONE 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
300&250	224&187	1200	1185&985	449T	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	365&370	PWS & YDRUN	CONTINUOUS	F1	1.15/1.15	40	3300

FULL LOAD EFF: 95.8&94.5	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80.5&81	3/4 LOAD PF: 77	1/2 LOAD PF: 68	95	SQ CAGE IND RUN	136

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1330 LB-FT	1950	2075 LB-FT 156	2800 LB-FT 211	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
76 dBA	86 dBA	110 LB-FT^2	- LB-FT^2	20 SEC.	2	2650 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	D RIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6318						

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

If Inverter equals NONE, contact factory for further information

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 07:02:54 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 16-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



449TTDN16077

Submittal

Data @ 460 V

Motor Load Data

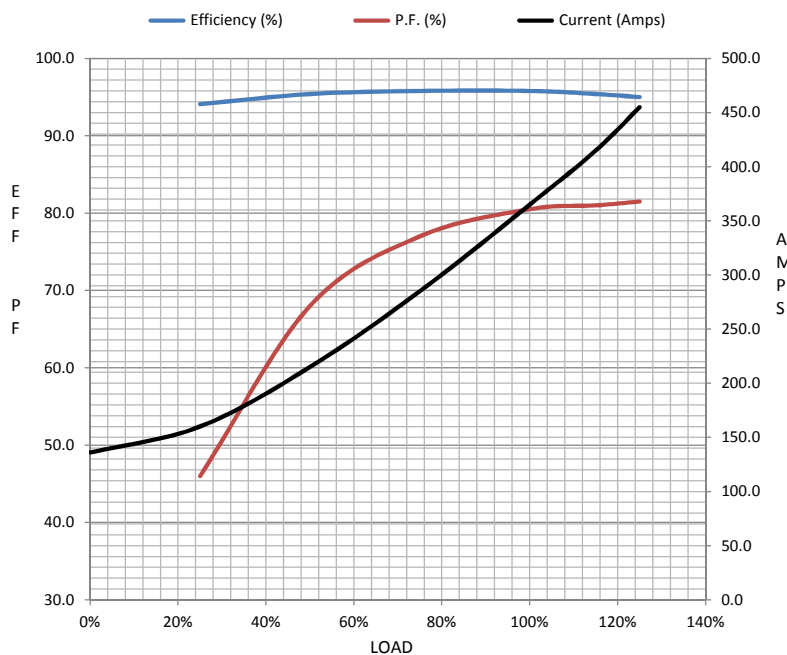
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	136	160	215	285	365	415	455	1,950	
Torque (ft-lb)	0.00	330	660	995	1,330	1,528	1,668	2,075	
RPM	1200	1196	1192	1188	1185	1,182	1180	0	
Efficiency (%)		94.1	95.4	95.8	95.8	95.4	95.0		
P.F. (%)	2.5	46.0	68.0	77.0	80.5	81.0	81.5	28.0	

Motor Speed Data

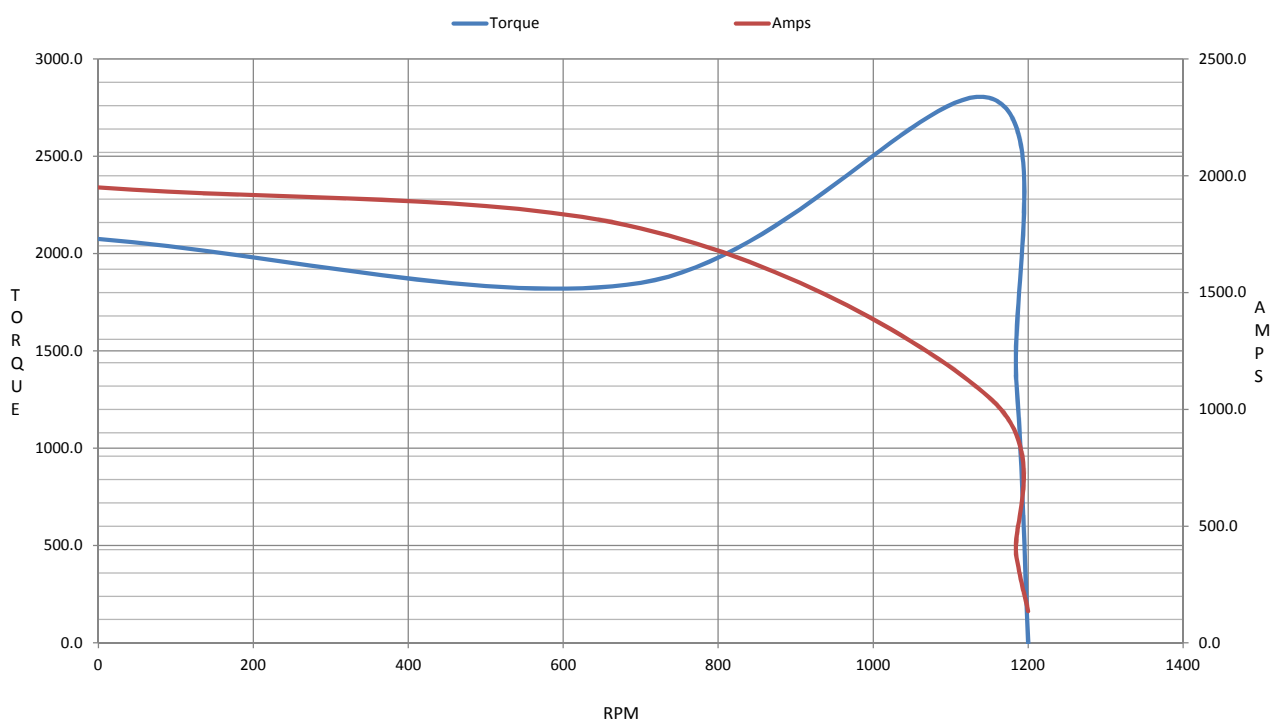
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1150	1185	1200
Current (Amps)	1,950	1,775	1,050	365	136
Torque (ft-lb)	2,075	1,850	2,800	1,330	0.00

Information Block

HP	300.0			
Sync. RPM	1200			
Frame	449			
Enclosure	DP			
Construction	TDN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	70 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	110 Lb-Ft ²			
Ref Wdg	T449670 NONE			
Sound Pressure @ 1M	76 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS514258-2938			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0110	0.0090	0.0820	0.1420	1.9720



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 : 449TTDN16077

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

Catalog No : U790

Rework No : N/A

Directives :

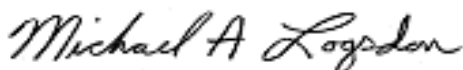
Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

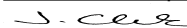
EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22