PRODUCT INFORMATION PACKET

Model No: 103414.00
Catalog No: 103414.00
Extreme Duck® Ultra General Purpose Motor, 0.75 & 0.75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, S56C Frame, TEFC

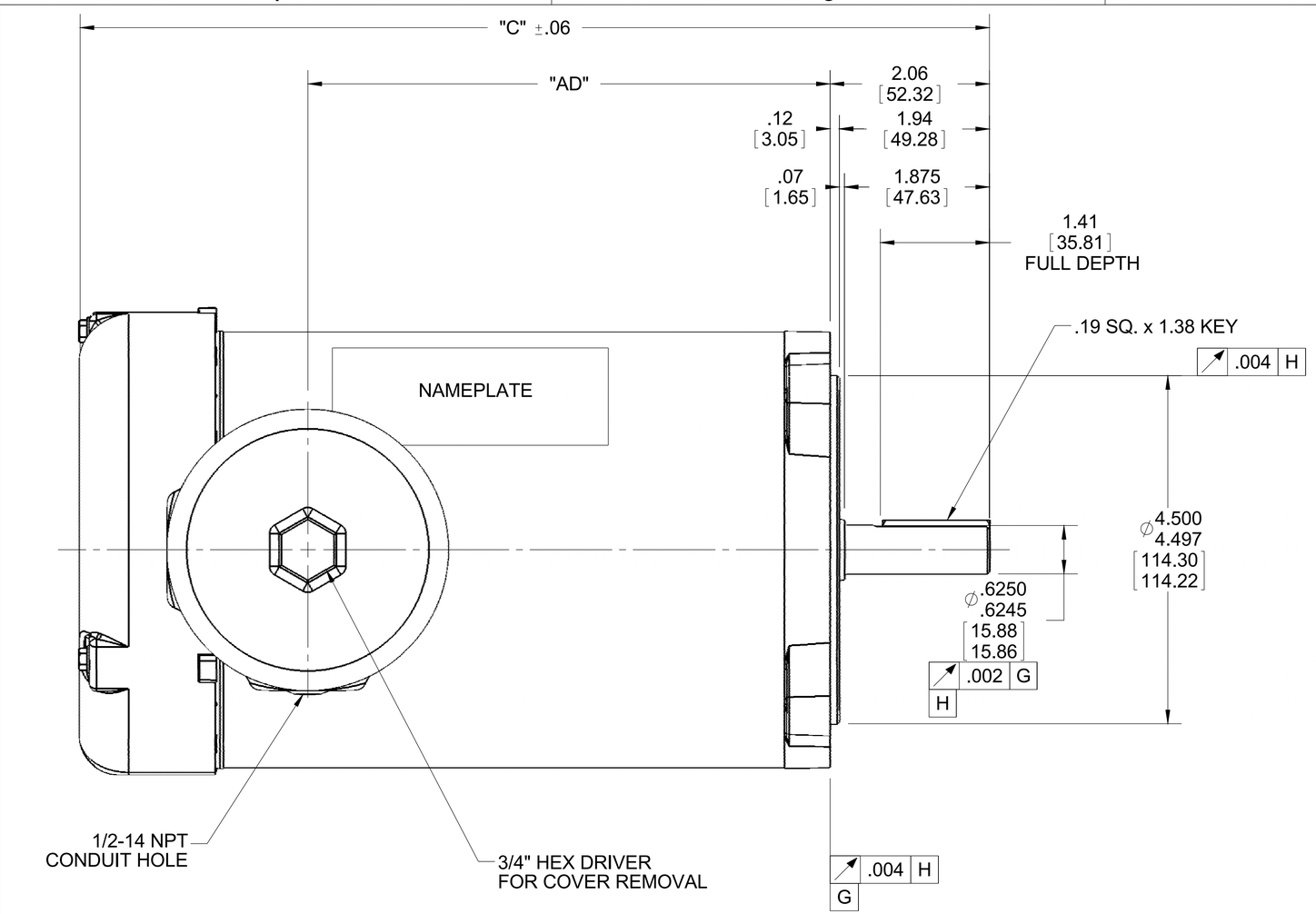
Operational at 208-230/460 V @60HZ

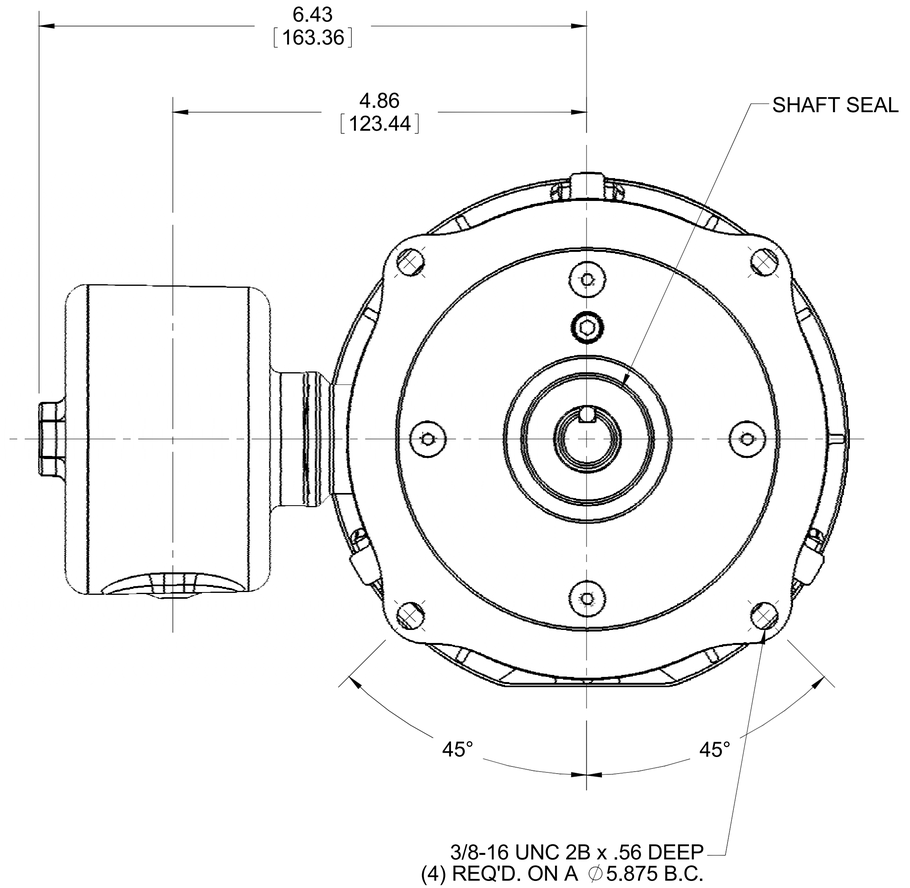
Nameplate Specifications

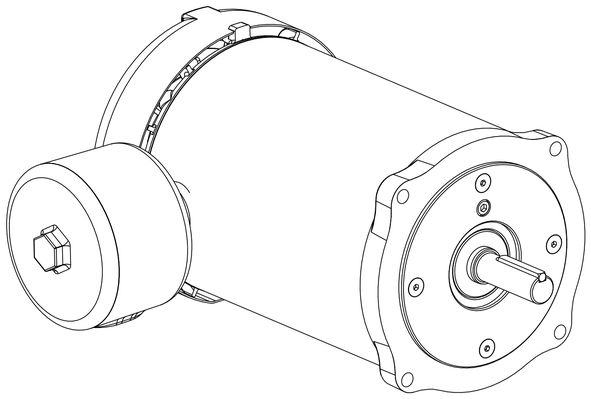
Phase	3	Output HP	0.75 & 0.75 Hp
Output KW	0.56 & 0.56 kW	Voltage	230/460 & 190/380 V
Speed	1725 & 1425 rpm	Service Factor	1.15 & 1.0
Frame	S56C	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	77 & 77 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	2.4/1.2 & 2.6/1.3 A	Power Factor	79
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	Recognized	CSA	Y
CE	Y	IP Code	69
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Stainless Steel
Shaft Type	NEMA 56	Overall Length	12.50 in
Frame Length	8.00 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	032127-800	Connection Drawing	005010.52







DASH NO.	"C"	"AD"
600	10.50	5.50
650	11.00	6.00
700	11.50	6.50
750	12.00	7.00
800	12.50	7.50

DRAWING REVISION: A	REVISION BY: M.MCCALEB	DATE: 05-15-2015
ECO: ECO-0074149	APPROVED BY: G.SCHALLOCK	DATE: 05-15-2015
ECO DESCRIPTION: NEW RELEASE		

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.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: 125 INCH / 3.2 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: M.MCCALEB	
DATE: 04-06-2015	
APPROVED BY:	
DATE:	
REFERENCE: 031999	
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.

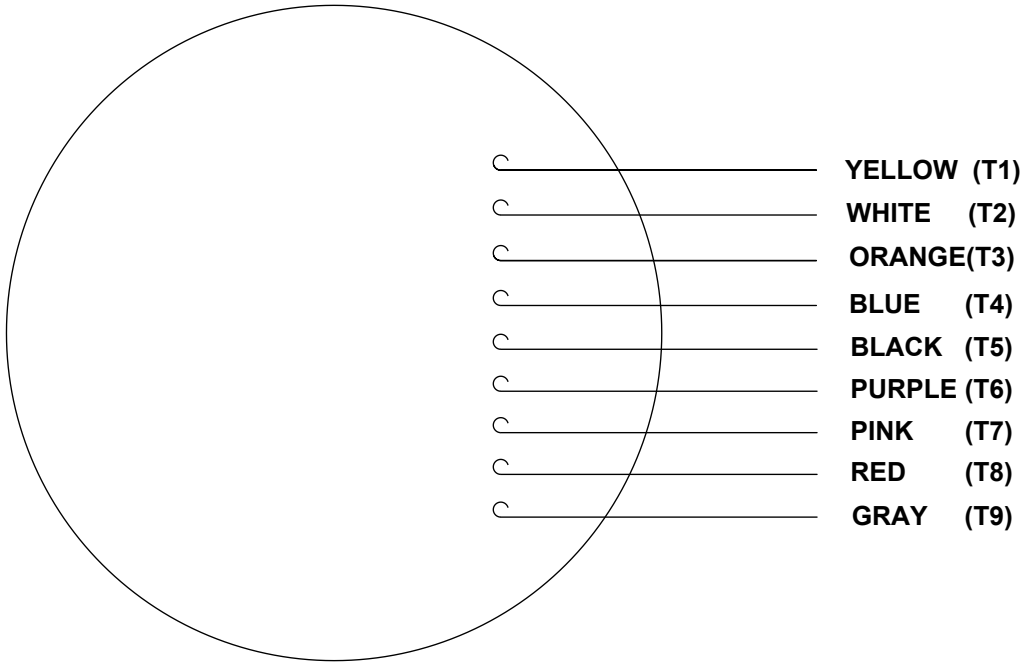
DESCRIPTION
MOTOR ASSY
48 FR EXTREME DUCK, S56 FRAME

MATERIAL	PROCESS/FINISH

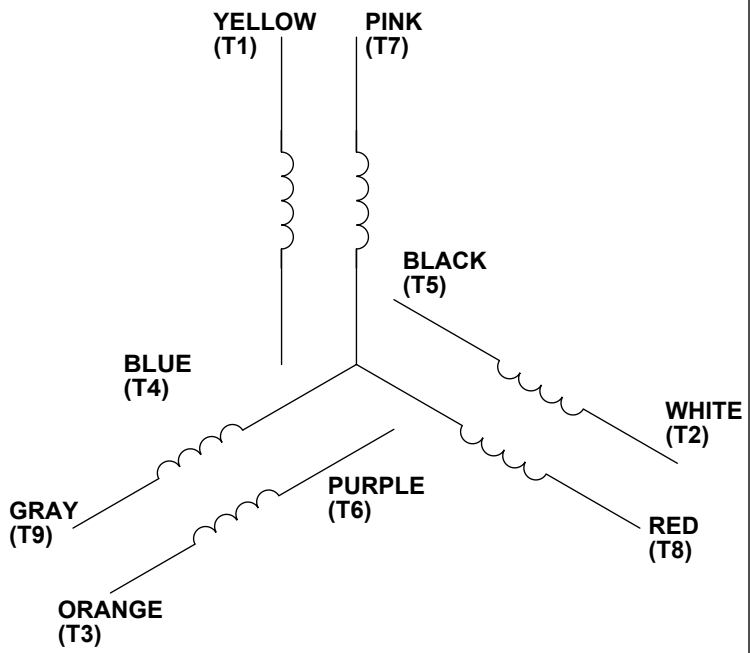
SIZE	DRAWING NUMBER	SHEET
B	032127	1 OF 1

ORACLE REV	00

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

DRAWING REVISION: C	REVISION BY: PVR	DATE: 04/23/14
ECO: ECO-0049985	APPROVED BY: JD	DATE: 04/23/14
ECO DESCRIPTION: UPDATED PER ECO-0049985		

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.01	[±0.25]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381]
CORNER FILLETS: .02 [.51]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: LST	
DATE: 4/3/14	
APPROVED BY:	
DATE:	
PROCESS/FINISH:	
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.

DESCRIPTION: LEAD ASSY
EXT. WIRING DIA. 3 PH. W/O PROT.

MATERIAL:

SIZE	DRAWING NUMBER	SHEET
A	00501052	1 OF 1

LEESON

1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CERTIFICATION DATA SHEET

CATALOG #: 103414.00

CONN. DIAGRAM: 005010.52

OUTLINE: 032127-800

MOUNTING: F1 ONLY

WINDING #: T55465 FR 4 A

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3/4&3/4	0.56&0.56	1800	1725&1425	S56C	TEFC	K	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	208-230/460&190/380	2.5-2.4/1.2&2.6/1.3	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.0	40

FULL LOAD EFF:	77	3/4 LOAD EFF:	76.7	1/2 LOAD EFF:	72.6	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	79	3/4 LOAD PF:	72.6	1/2 LOAD PF:	60.9	0	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
36 OZ-FT	16 / 8	150 OZ-FT 417 %	145 OZ-FT 403 %	-

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0 LB-FT^2	0 LB-FT^2	0 SEC.	0	0 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	NO PAINT

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	303 STAINLESS (C-501)	STAINLESS STEEL
6204	6204						

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

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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

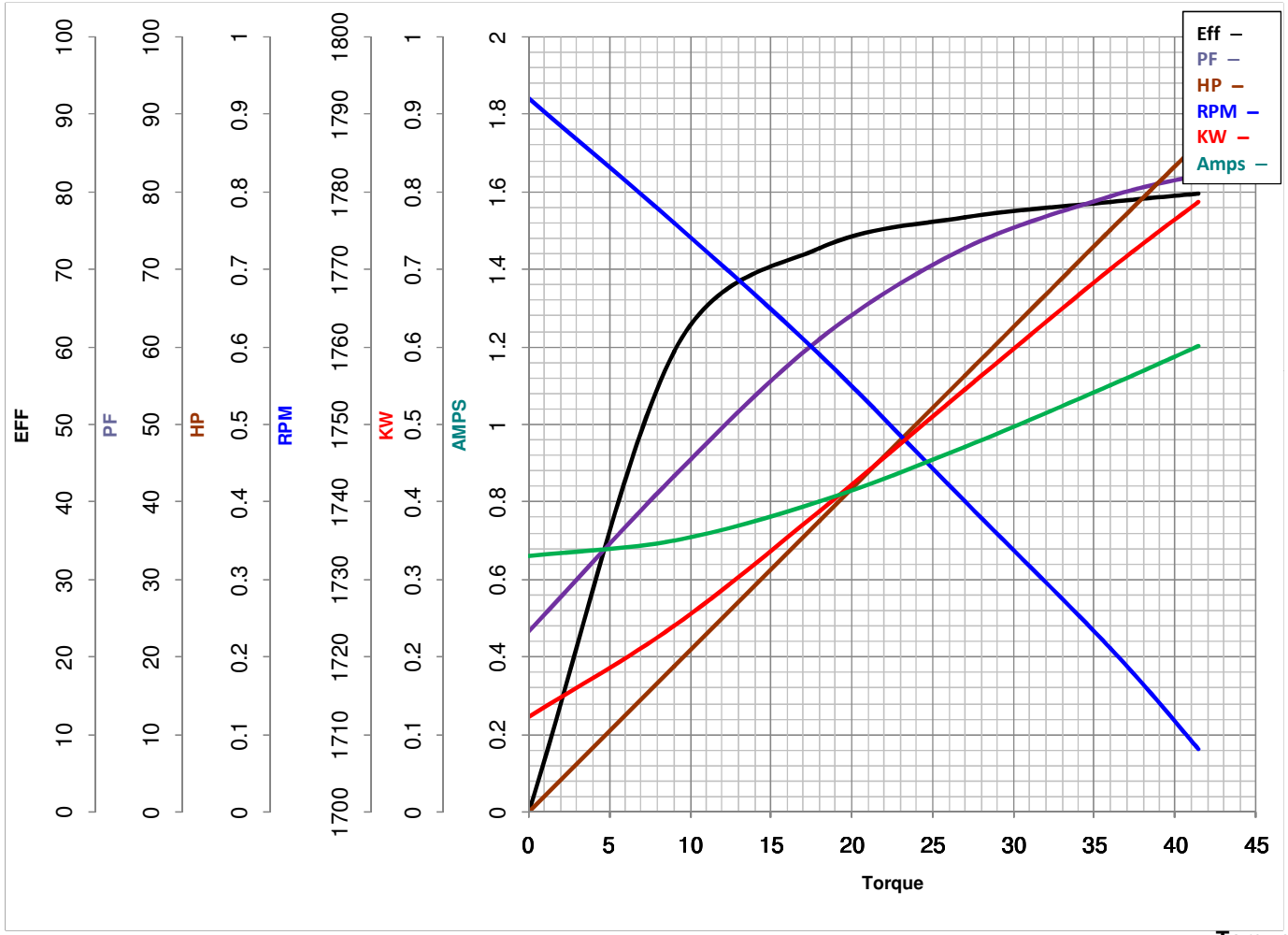
LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Curve at 460 **Volts** **HP** 0.75&0.75 **PHASE** 3
60 **HZ**
0.75 **HP** **VOLTS** 208-230/460&190/380

Model No 103414.00

Catalog No 103414.00 **HZ** 60&50 **RPM** 1725&1425



Torque in Oz.Ft

FL TORQUE	36	**Oz.Ft**	**FL AMPS**	2.5-2.4/1.2	
BD TORQUE	145.0	**Oz.Ft**	**PU TORQUE**	140.0	**Oz.Ft**
LR TORQUE	150	**Oz.Ft**	**LR AMPS**	8	
WINDING	T55465-4			**Date**	**5/22/2018**

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
1946 West Cook Road
Fort Wayne, IN 46818

and the authorized representative
established within the Community:

Regal Beloit Italy
Via Modena, 18
24040 Ciserano(BG) - Italy

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 : 103414.00

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

Catalog No : 103414.00

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:

Zach Stauffer
Vice President, Engineering

Authorized Representative in the Community:

Stefano Casiraghi
Technology Director, Engineering

Created on 07/08/2025

CE 25