PRODUCT INFORMATION PACKET

Model No: 449TSTFCD6006
Catalog No: GT1072
Globetrotter® General Purpose Motor, 300 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 449TS Frame, TEFC

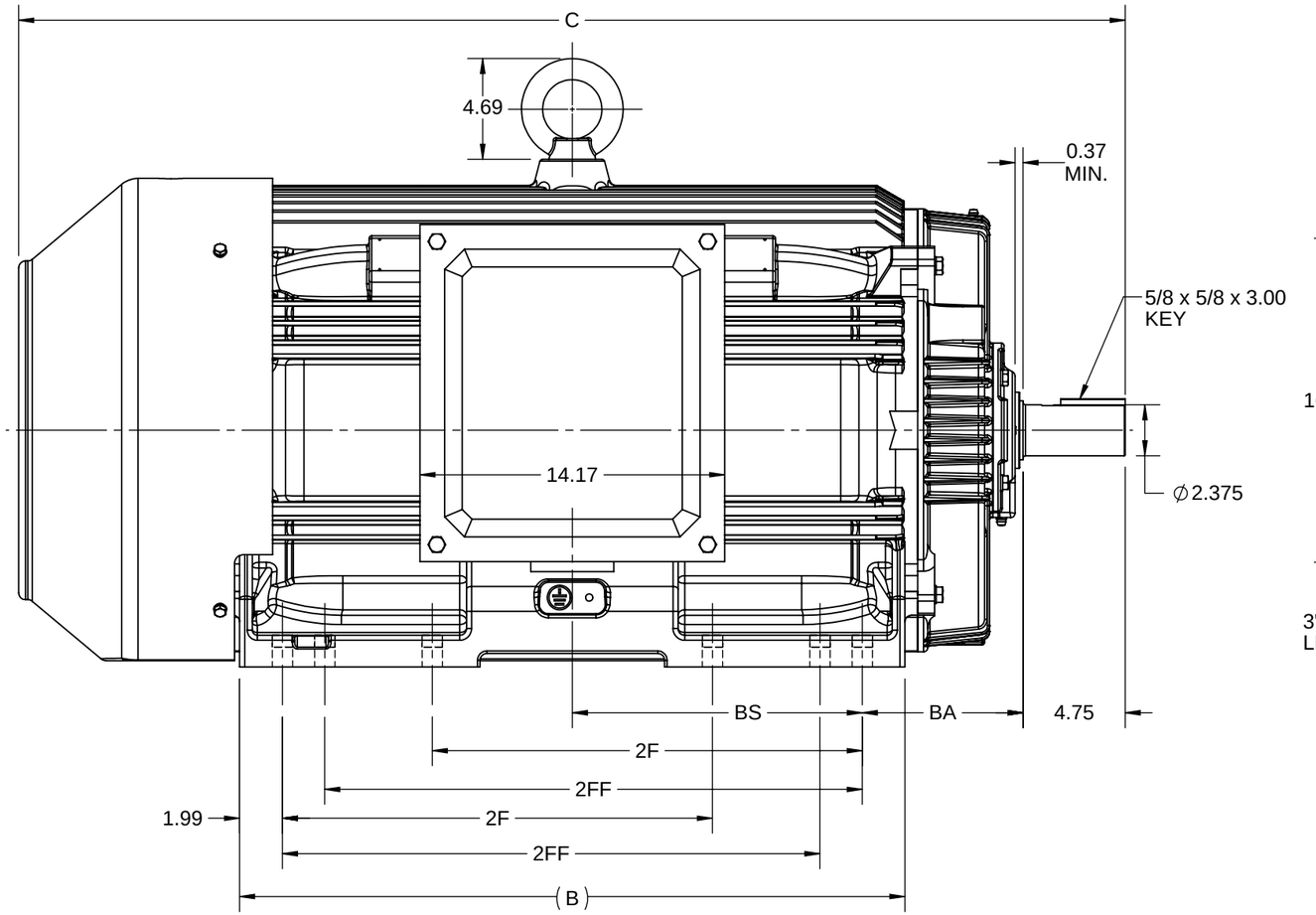
Nameplate Specifications

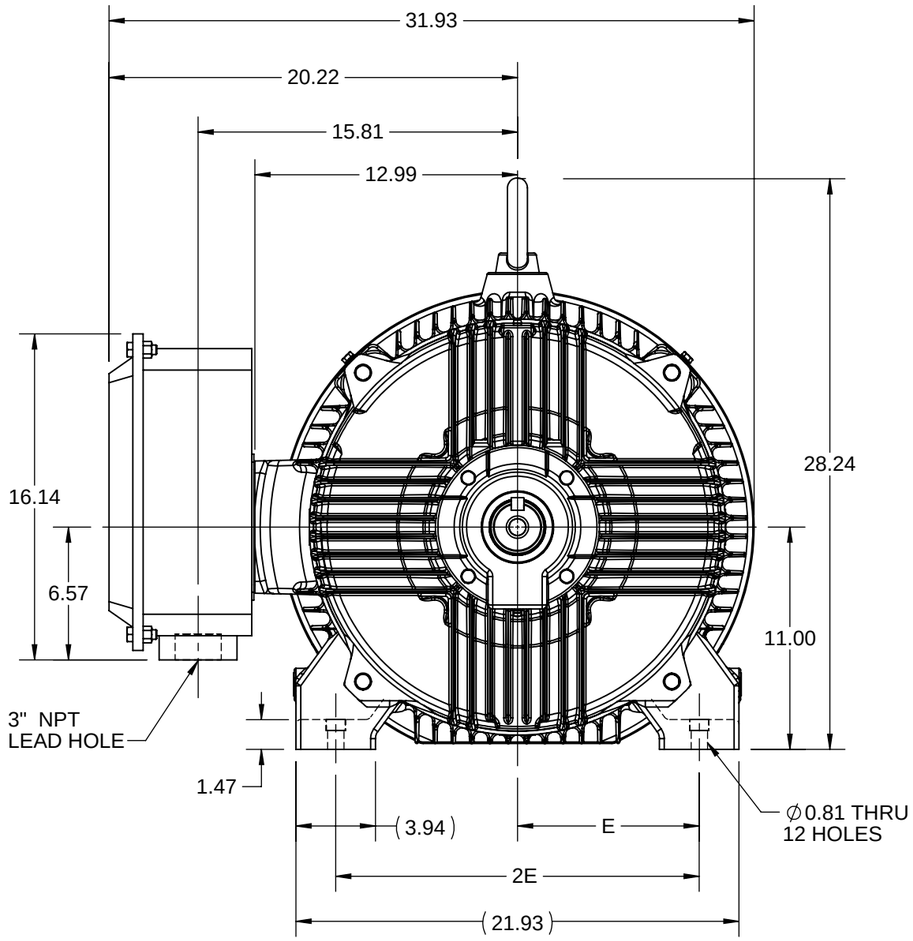
Phase	3	Output HP	300 & 250 Hp
Output KW	224.0 & 187.0 kW	Voltage	460 & 380 V
Speed	3580 & 2979 rpm	Service Factor	1.15 & 1.15
Frame	449TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.8 & 95.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	320 & 324 A	Power Factor	91.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Listed	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B

Technical Specifications

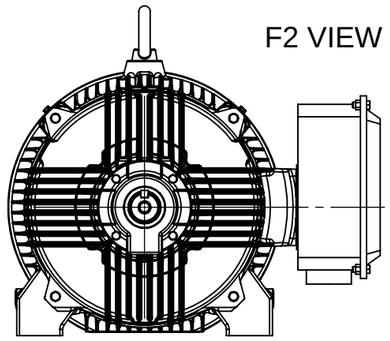
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.0117 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Shaft Diameter	2.375 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS557012	Connection Drawing	EE7341C

B	C	E	2E	2F	2FF	BA	BS	MOUNTING
30.94	51.46	9.00	18.00	20.00	25.00	7.50	13.48	F1 OR F2





F2 VIEW



DRAWING REVISION	REVISION BY	DATE
F	BISWA	11/12/2020
ECO	APPROVED BY	DATE
CR-0000111	GNK	11/12/2020

ECO DESCRIPTION

DRAWING UPDATED

DRAWN BY	NIV
DATE	23/05/2016
APPROVED BY	SBD
DATE	23/05/2016
REFERENCE	
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.

DESCRIPTION

OUTLINE

447/449TS FR-TEFC

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS557012	1 OF 1

EE7341C

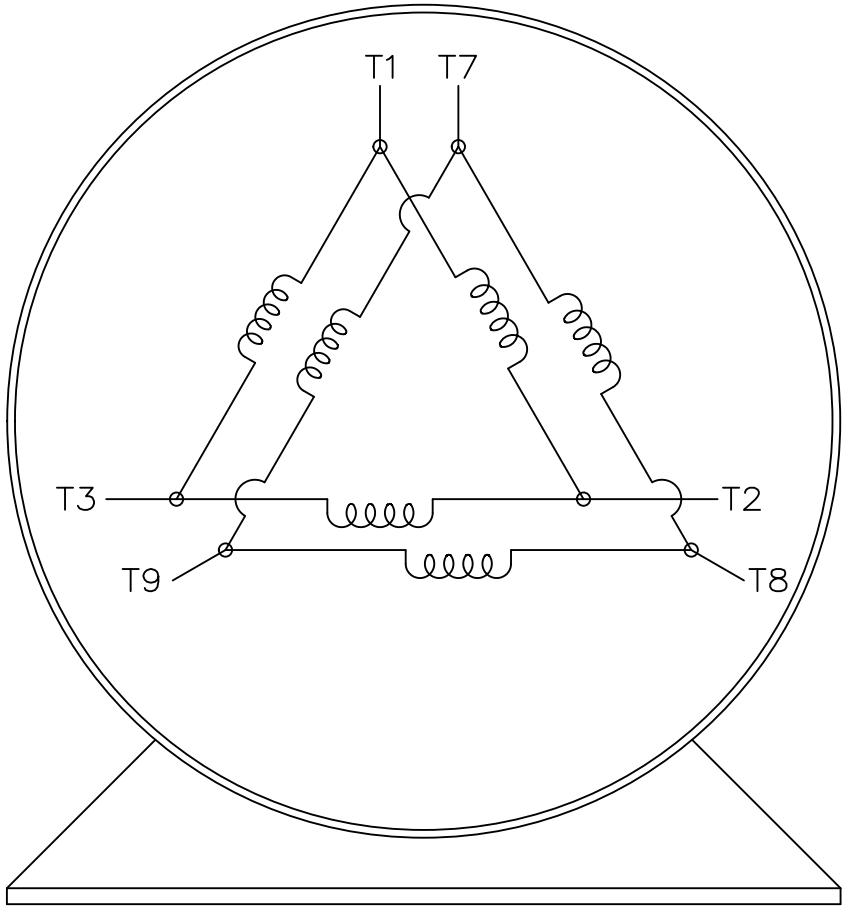
THREE PHASE – PART WINDING START
DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3



VIEW OF TERMINAL END

IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7–T8,T8–T9,T9 OPEN

RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3

NO.	REVISION	BY & DATE	CHK
E	NOTE ADDED FOR 2 T'S	NAR 17-12-2020	RC
D	RE-DRAWN WITH REGAL LOGO ECO-0110493	WGJ 09-30-2016	EMH

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	± –
.XX	± –
.XXX	± –
.XXXX	± –
ANG	± –

REGAL REGAL - BELOIT CORPORATION

TITLE: CONNECTION DIAGRAM 3Ø – 6 LEADS

MAT'L.

FINISH

RFP

DIST

CAD FILE EE7341C

DRAWN BLR	03-09-1998
CHK ML	03-23-1998
APPD GK	03-23-1998
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7341C | PAGE OF | REV. E

P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: EE7341C
OUTLINE: SS557012
WINDING: HA32802020 NONE 1
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 449TSTFCD6006
CAT #: GT1072
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
300	224	3600	3580	447/449TS	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	320&324	PWS OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	96.0	1/2 LD EFF	95.5	GTD EFF	ELECT. TYPE	
F.L. PF	91.5	3/4 LD PF	90.5	1/2 LD PF	86.5	95.4	SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
440 LB-FT	2,250	835 LB-FT 190%	1,190 LB-FT 270%	75	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
80 dBA	89 dBA	51.7 LB-FT²	170 LB-FT²	20 SEC.	2	2495 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	DIVISION 2 T2B	YES	NONE	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6314						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.008	0.005	0.057	0.098	3.733	0.150	ODE

* NOTES *

INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY:
DATE: 2/22/2022

FORM: 3531 REV_4 2/27/06

UL: NO LETTER - ME,WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED

Data Sheet

Date: 2/22/2022
Customer:
Attention:
Submitted by:

marathon® Motors

449TSTFCD6006

Submittal

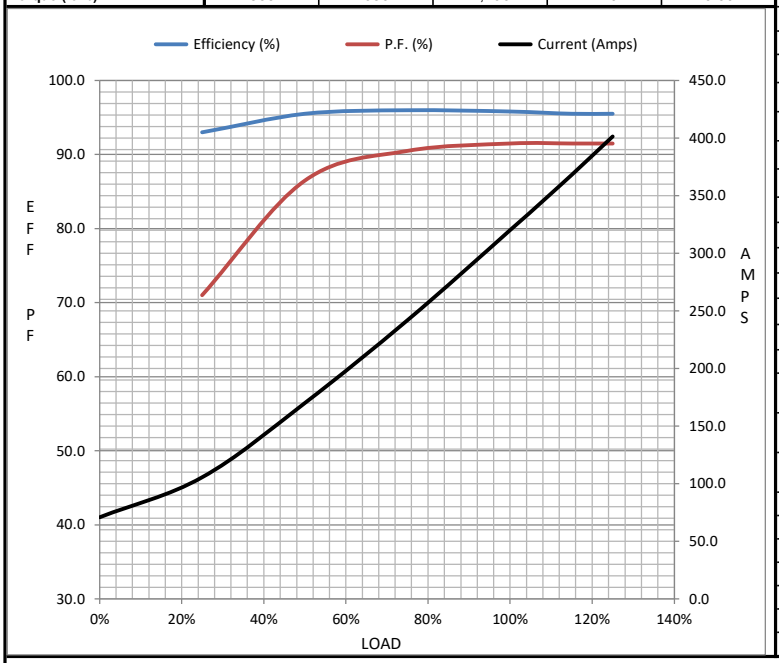
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	71.0	106	170	242	320	368	402	2,250	
Torque (ft-lb)	0.00	110	219	330	440	506	551	835	
RPM	3600	3595	3590	3585	3580	3,577	3574	0	
Efficiency (%)		93.0	95.5	96.0	95.8	95.5	95.5		
P.F. (%)	6.5	71.0	86.5	90.5	91.5	91.5	91.5	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3470	3580	3600
Current (Amps)	2,250	1,810	1,285	320	71.0
Torque (ft-lb)	835	680	1,190	440	0.00



Information Block

HP	300.0	
Sync. RPM	3600	
Frame	449	
Enclosure	TEFC	
Construction	TFC	
Voltage	460#380	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	75	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	51.7	Lb-Ft²
Ref Wdg	HA32802020 NONE	
Sound Pressure @ 1M	80	dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1	
Outline Dwg	SS557012	
Conn. Diag	EE7341C	

Additional Specifications:

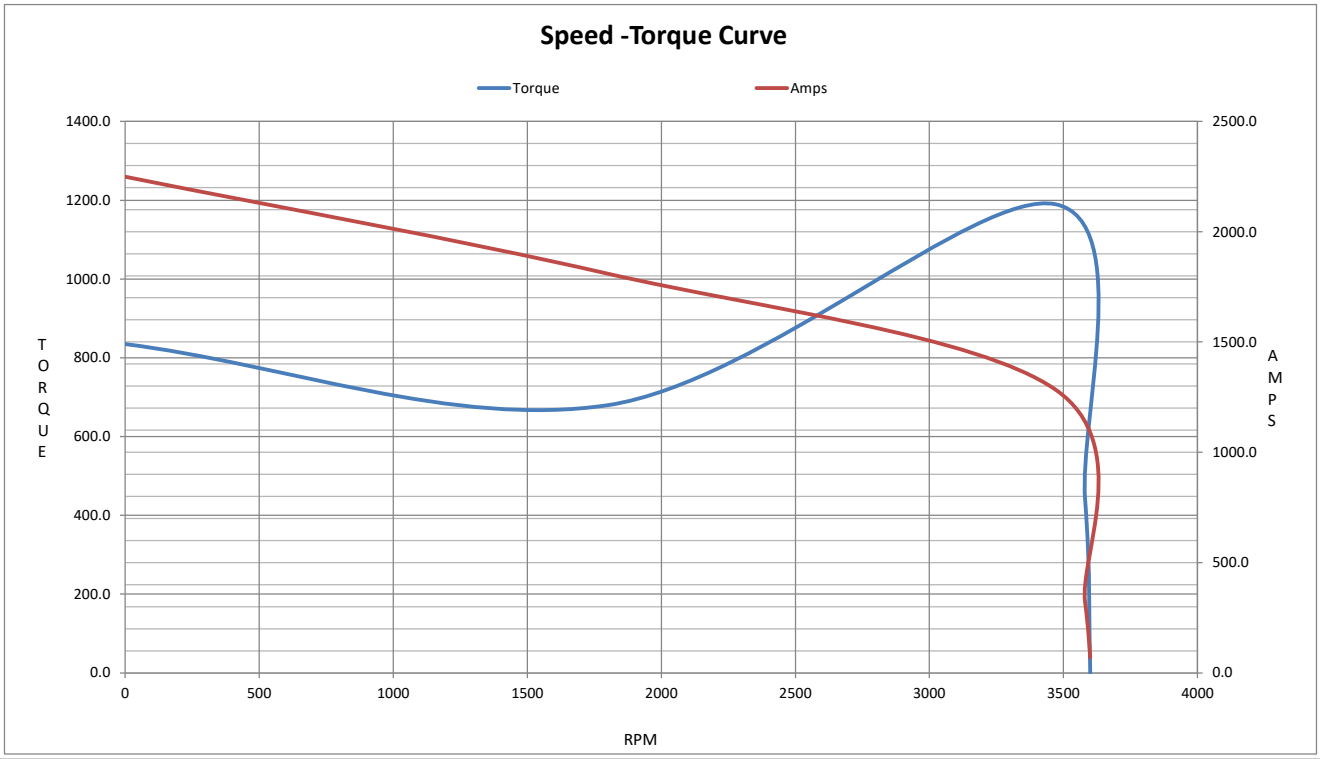
0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0080	0.0050	0.0570	0.0980	3.7330

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 : 449TSTFCD6006

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

Catalog No : GT1072

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