

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256TTFCA6006

Catalog No: GT3124

Globetrotter® Close-Coupled Pump Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 256JM Frame, TEFC



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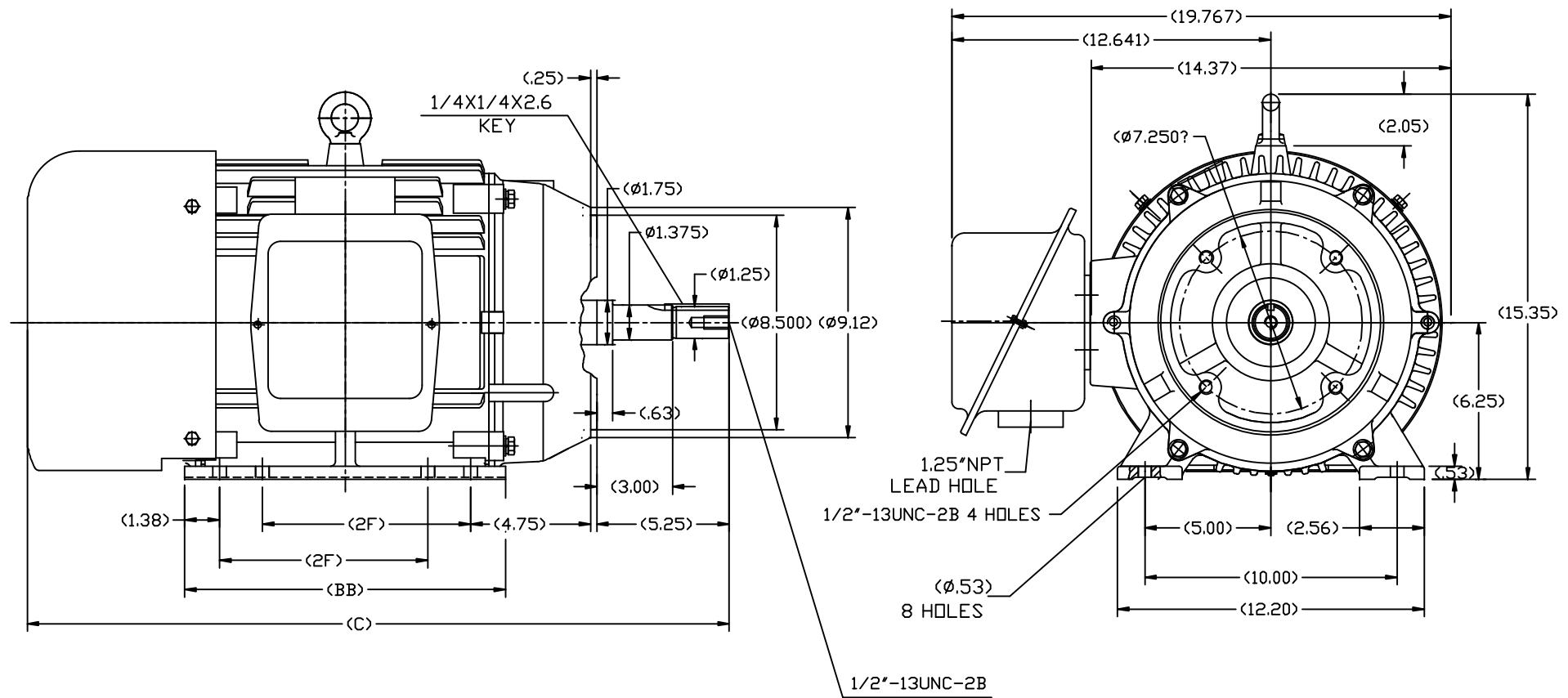
RegalRexnord

Nameplate Specifications


Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	3550 & 2955 rpm	Service Factor	1.15 & 1.15
Frame	256JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	46.5/23.2 & 41.5/20.7 A	Power Factor	89
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6209	Opp Drive End Bearing Size	6209
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.366 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	JM	Overall Length	27.80 in
Shaft Diameter	1.250 in	Shaft Extension	5.25 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Connection Drawing	EE7308K	Outline Drawing	SS620564-256

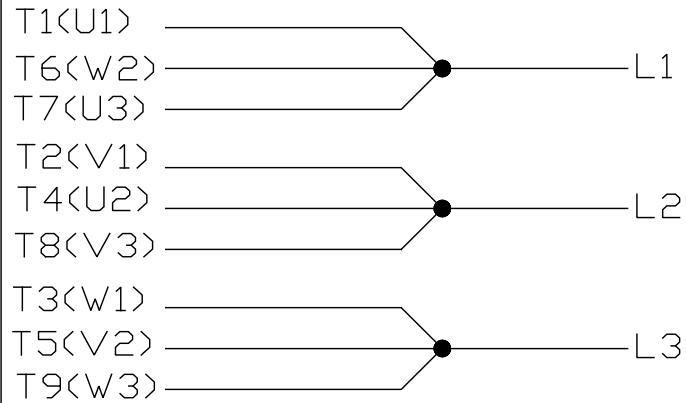
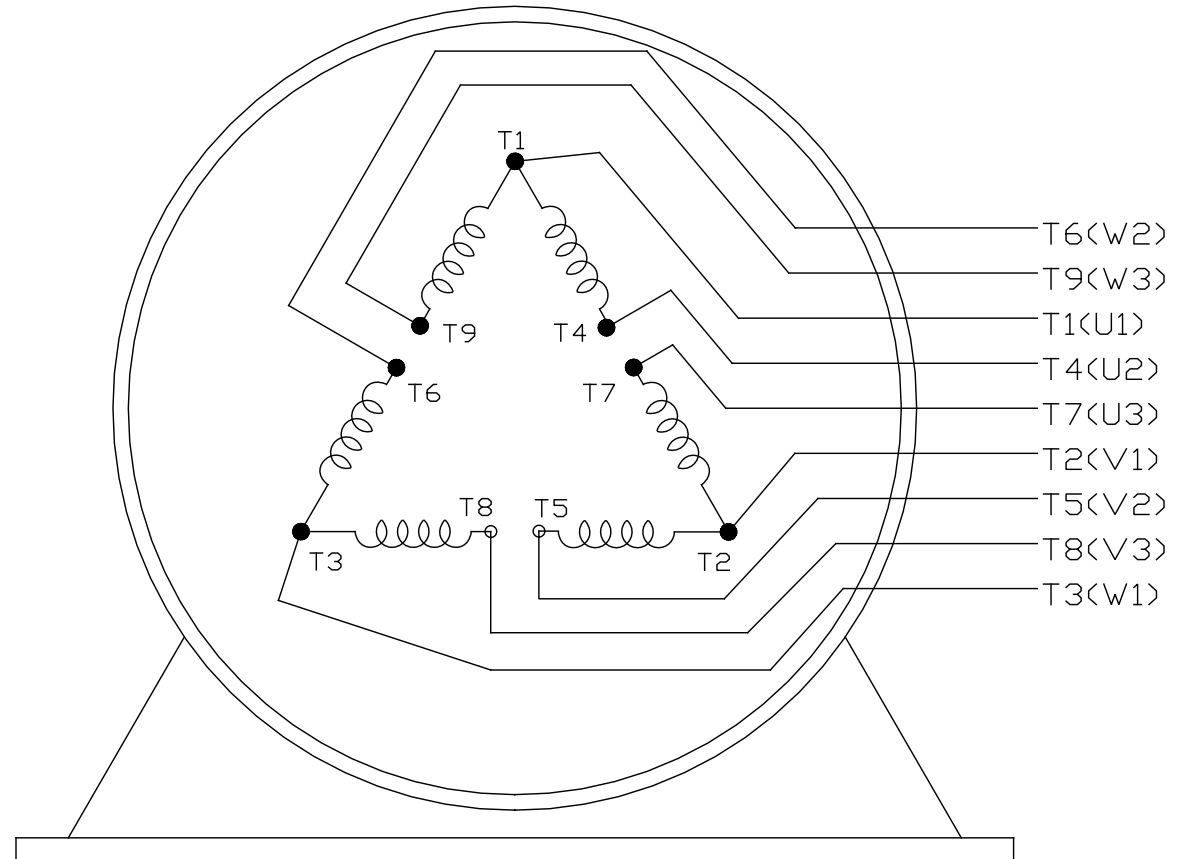
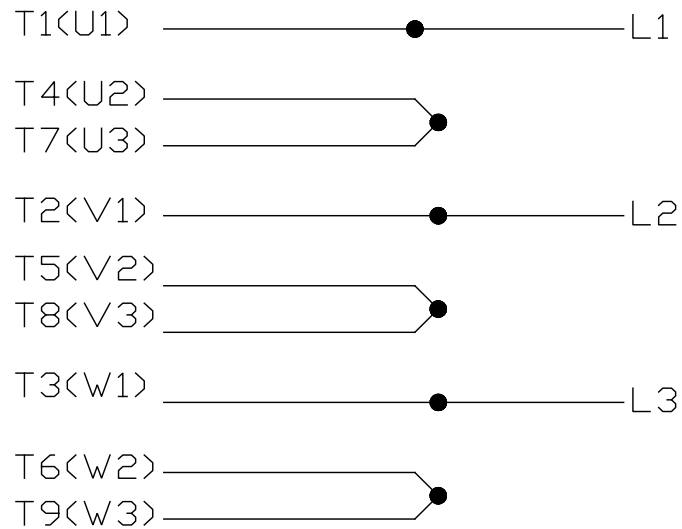


254	26.60	12.80	8.25
256	27.80	13.98	10.00
FRAME	C	BB	2F


		TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN L.S.J 05-16-2012	
DEC.	INCHES				CHK	
.X	±.1				APPD	
.XX	±.03				SCALE	1=4
.XXX	±.005				REF	
.XXXX	±.0005			MAT'L.	FMF	HWADA
NO.	REVISION	BY & DATE	CHK	ANG	±1/2	FINISH
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	CAD FILE	SS620564
				DIST	SIZE	DRAWING NO.
					B	SS620564
						REV.

LOW VOLTAGE

EE7308K

HIGH VOLTAGE

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997		
NO.	REVISION	BY & DATE	CHK	ANG	± 7'30"		CHK	ML	06-05-1997
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.	INCHES	TITLE CONNECTION DIAGRAM DELTA CON. - 3Ø - 9 LEADS MAT'L. FINISH	APPD	GK	06-15-1997
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	± .1		SCALE		
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	± .02		REF		
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	± .005		FMF		
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	± .0005		PREV		
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						DIST			DRAWING NO. PAGE OF
								EE7308K	REV. E

CERTIFICATION DATA SHEET

Model#: 256TTFCA6006 AA

WINDING#: CHT25620003 NONE 1

CONN. DIAGRAM: EE7308K

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620564

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	3600	3550&2955	256JM	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	46.5/23.2&41. 5/20.7	LINE OR INVERTER	CONTINUOU S	F2	1.15/1.15	40	3300

FULL LOAD EFF: 91&90.2	3/4 LOAD EFF: 91	1/2 LOAD EFF: 89.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&87.5	3/4 LOAD PF: 87.5	1/2 LOAD PF: 82	90.2	SQ CAGE INV RATED	12.6 / 6.3

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.6 LB-FT	280 / 140	54 LB-FT 182	75 LB-FT 254	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	1.65 LB-FT^2	- LB-FT^2	20 SEC.	2	435 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	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	JM	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6209	6209						

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

* N O T E S *	INVERTER TORQUE: VARIABLE 10:1
	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 11:11:21 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



256TTFCA6006

Submittal

Data @ 460 V

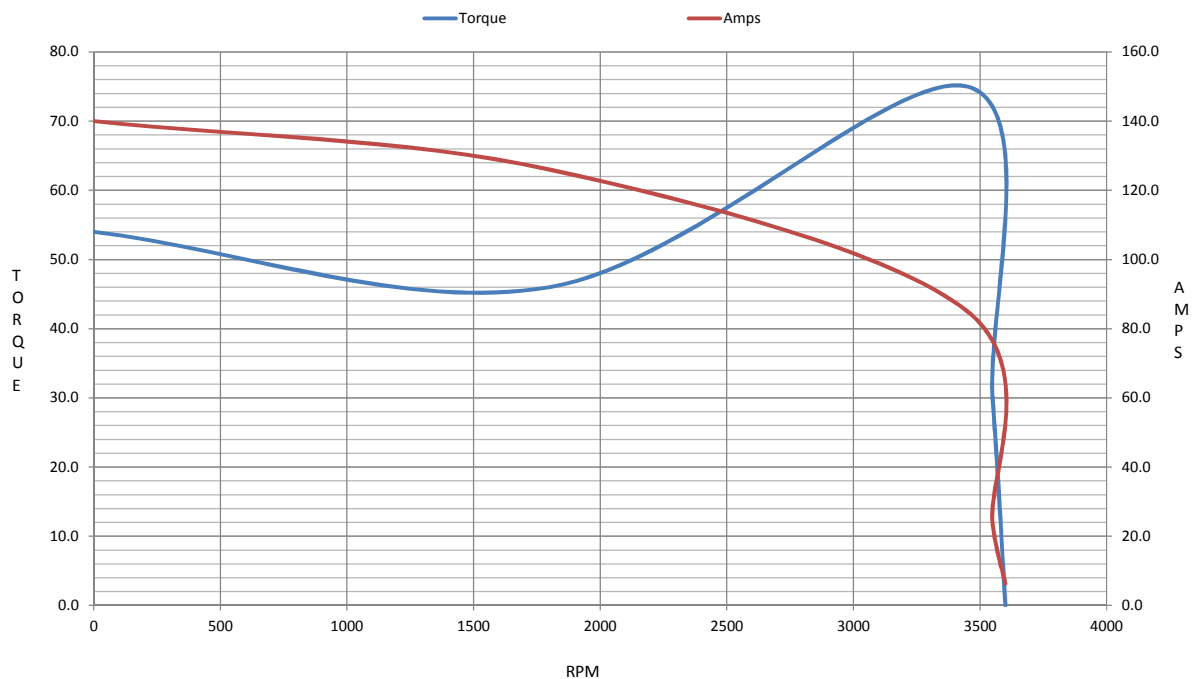
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.3	8.6	12.7	17.5	23.2	26.8	29.0	140	
Torque (ft-lb)	0.00	7.3	14.7	22.0	29.6	34.0	37.0	54.0	
RPM	3600	3585	3575	3565	3550	3,545	3530	0	
Efficiency (%)		84.5	89.5	91.0	91.0	91.0	90.2		
P.F. (%)	11.0	64.5	82.0	87.5	89.0	90.0	90.0	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																																												
Speed (RPM)	0	1800	3450	3550	3600	HP	20.0																																											
Current (Amps)	140	126	85.0	23.2	6.3	Sync. RPM	3600																																											
Torque (ft-lb)	54.0	46.0	75.0	29.6	0.00	Frame	256																																											
<div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div> <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0%</td><td></td><td></td><td>5.5</td></tr><tr><td>20%</td><td></td><td></td><td>7.5</td></tr><tr><td>25%</td><td>85</td><td>65</td><td>8.5</td></tr><tr><td>40%</td><td>88</td><td>78</td><td>10.5</td></tr><tr><td>60%</td><td>91</td><td>85</td><td>14.5</td></tr><tr><td>80%</td><td>92</td><td>88</td><td>19.5</td></tr><tr><td>100%</td><td>92</td><td>89</td><td>25.5</td></tr><tr><td>120%</td><td>92</td><td>90</td><td>30.0</td></tr><tr><td>125%</td><td>92</td><td>90</td><td>30.0</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%			5.5	20%			7.5	25%	85	65	8.5	40%	88	78	10.5	60%	91	85	14.5	80%	92	88	19.5	100%	92	89	25.5	120%	92	90	30.0	125%	92	90	30.0	Enclosure	TEFC			
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						125%	92	90	30.0																																									
						Construction	TFC																																											
						Voltage	30/460#190/381V																																											
						Frequency	60 Hz																																											
						Design	B																																											
						LR Code letter	G																																											
						Service Factor	1.15																																											
Temp Rise @ FL	50 ° C																																																	
Duty	CONT																																																	
Ambient	40 ° C																																																	
Elevation	1,000 feet																																																	
Rotor/Shaft wk ²	1.65 Lb-Ft ²																																																	
Ref Wdg	CHT25620003 NONE																																																	
Sound Pressure @ 1M	72 dBA																																																	
VFD Rating	VARIABLE 10:1																																																	
Outline Dwg	SS620564																																																	
Conn. Diag	EE7308K																																																	
Additional Specifications:																																																		
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EQUIV CKT (OHMS / PHASE)																																																		
R1	R2	X1	X2	Xm																																														
0.2500	0.1780	0.9610	1.2500	43.4520																																														

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 : 256TTFCA6006

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

Catalog No : GT3124

Rework No : N/A

Directives :

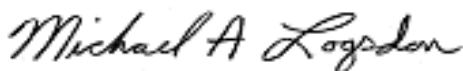
Low Voltage Directive 2014/35/EU

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