

PRODUCT INFORMATION PACKET

Model No: 254TTDR16027

Catalog No: E188A

Close-Coupled Pump Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
254JMV Frame, DP

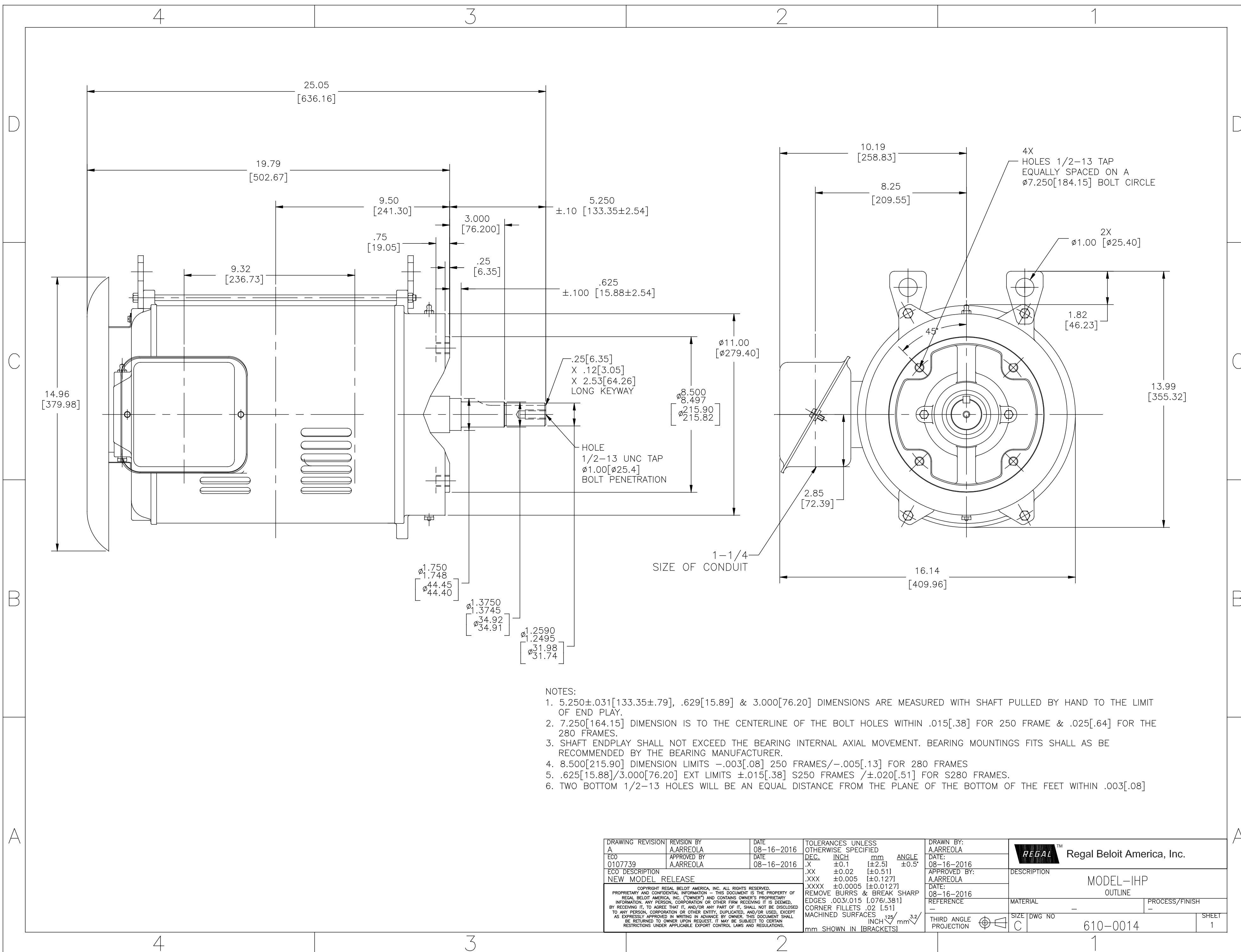


Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	230/460 & 190/380 V
Speed	1768 & 1470 rpm	Service Factor	1.15 & 1.15
Frame	254JMV	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 92 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	38/18.9 & 33/16.5 A	Power Factor	79.9
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.515 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	25.05 in
Shaft Diameter	1.375 in	Shaft Extension	5.28 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	610-0014-1300	Connection Drawing	EE7308K



NOTES:

- 5.250 \pm .031[133.35 \pm .79], .629[15.89] & 3.000[76.20] DIMENSIONS ARE MEASURED WITH SHAFT PULLED BY HAND TO THE LIMIT OF END PLAY.
- 7.250[164.15] DIMENSION IS TO THE CENTERLINE OF THE BOLT HOLES WITHIN .015[.38] FOR 250 FRAME & .025[.64] FOR THE 280 FRAMES.
- SHAFT ENDPLAY SHALL NOT EXCEED THE BEARING INTERNAL AXIAL MOVEMENT. BEARING MOUNTINGS FITS SHALL AS BE RECOMMENDED BY THE BEARING MANUFACTURER.
- 8.500[215.90] DIMENSION LIMITS $-.003$ [.08] 250 FRAMES/ $-.005$ [.13] FOR 280 FRAMES
- .625[15.88]/3.000[76.20] EXT LIMITS ± 0.015 [.38] S250 FRAMES / ± 0.020 [.51] FOR S280 FRAMES.
- TWO BOTTOM 1/2-13 HOLES WILL BE AN EQUAL DISTANCE FROM THE PLANE OF THE BOTTOM OF THE FEET WITHIN .003[.08]

DRAWING REVISION A	REVISION BY A.ARREOLA	DATE 08-16-2016	TOLERANCES UNLESS OTHERWISE SPECIFIED DEC. INCH mm ANGLE .XX ± 0.1 [± 2.5] $\pm 0.5^\circ$.XX ± 0.02 [± 0.51] .XXX ± 0.005 [± 0.127] .XXXX ± 0.0005 [± 0.0127]	DRAWN BY: A.ARREOLA	Regal Beloit America, Inc.
ECO 0107739	APPROVED BY A.ARREOLA	DATE 08-16-2016	REMOVE BURRS & BREAK SHARP EDGES .003/.015 [0.076/.381] CORNER FILLETS .02 [51] MACHINED SURFACES $\frac{125}{\text{INCH}} \sqrt{\frac{3.2}{\text{mm}}}$	DATE: 08-16-2016	
ECO DESCRIPTION NEW MODEL RELEASE				APPROVED BY: A.ARREOLA	DESCRIPTION MODEL-IHP OUTLINE
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				REFERENCE -	PROCESS/FINISH -
				THIRD ANGLE PROJECTION	SIZE DWG NO C 610-0014
					SHEET 1

LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

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

Data Sheet

Date: 20-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



254TTDR16027

Submittal

Data @ **460 V**

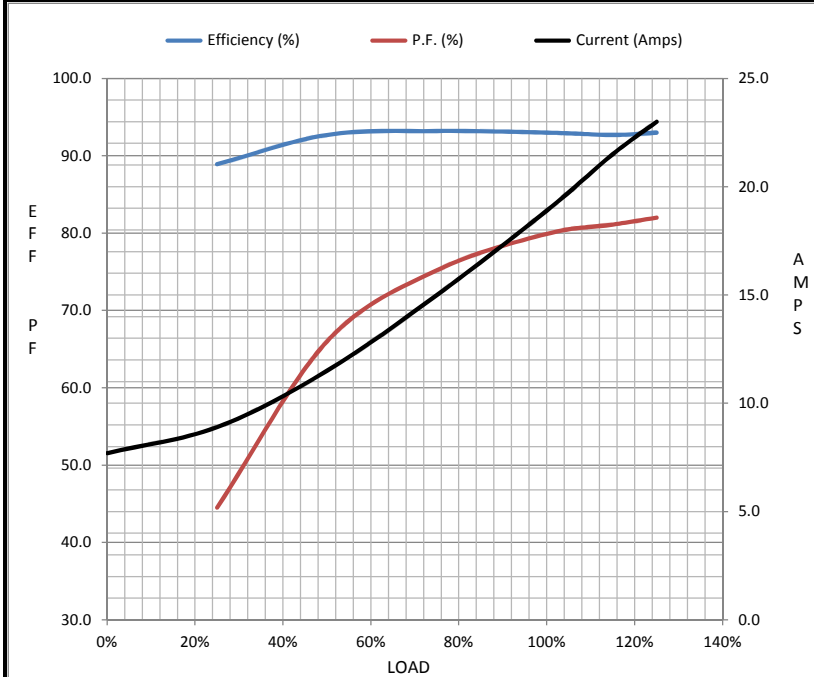
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.7	8.9	11.5	15.0	18.9	21.5	23.0	114
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.5	51.0	60.0	84.1
RPM	1800	1793	1785	1777	1768	1,762	1740	0
Efficiency (%)		88.9	92.7	93.2	93.0	92.7	93.0	
P.F. (%)	0.0	44.5	66.0	75.2	79.9	81.1	82.0	0.0

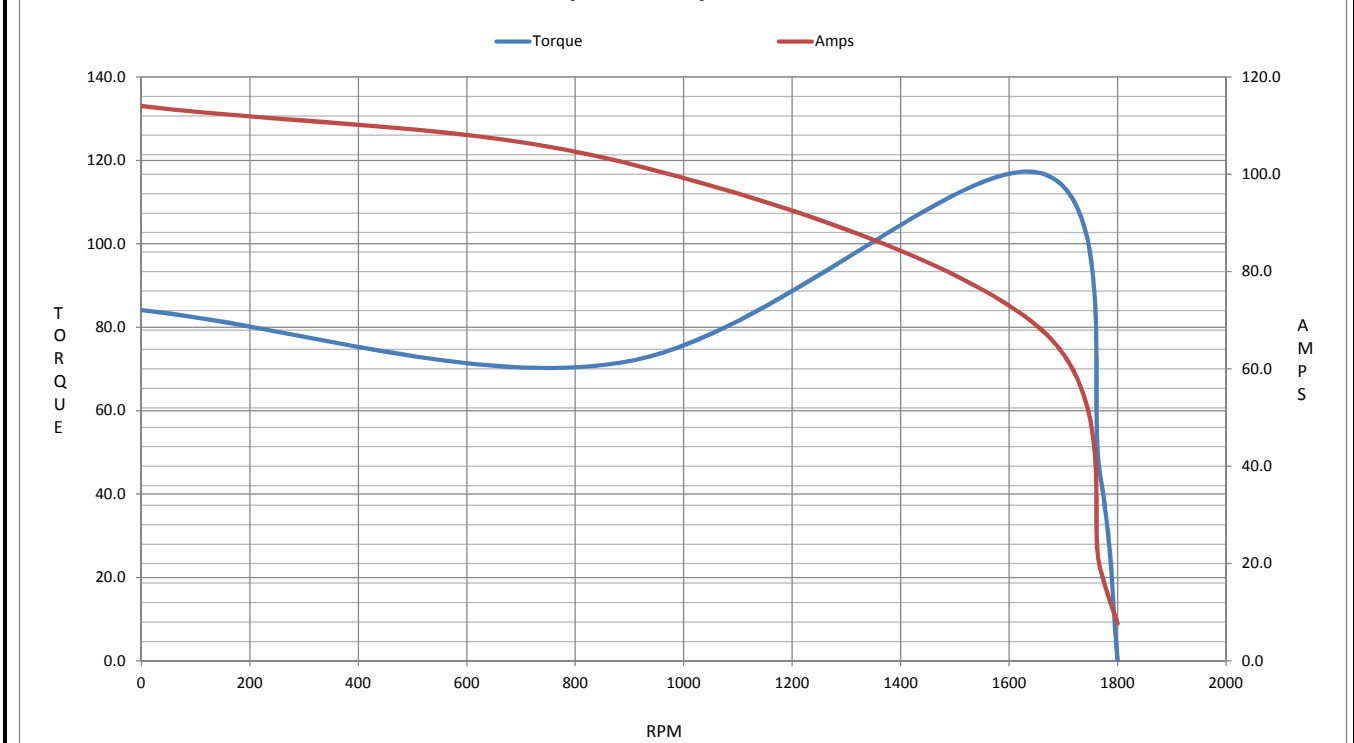
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	884	1656	1768	1800
Current (Amps)	114	103	68.4	18.9	7.7
Torque (ft-lb)	84.1	71.5	117	44.5	0.00

Information Block				
HP	15.0			
Sync. RPM	1800			
Frame	254			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/38(V)			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	21 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	2.00 Lb-Ft ²			
Ref Wdg	BGR4T01 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	610-0014			
Conn. Diag	80022801			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



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 : 254TTDR16027

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

Catalog No : E188A

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