

# PRODUCT INFORMATION PACKET

Model No: 143TTDR6027

Catalog No: U758

General Purpose Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 143T Frame, DP



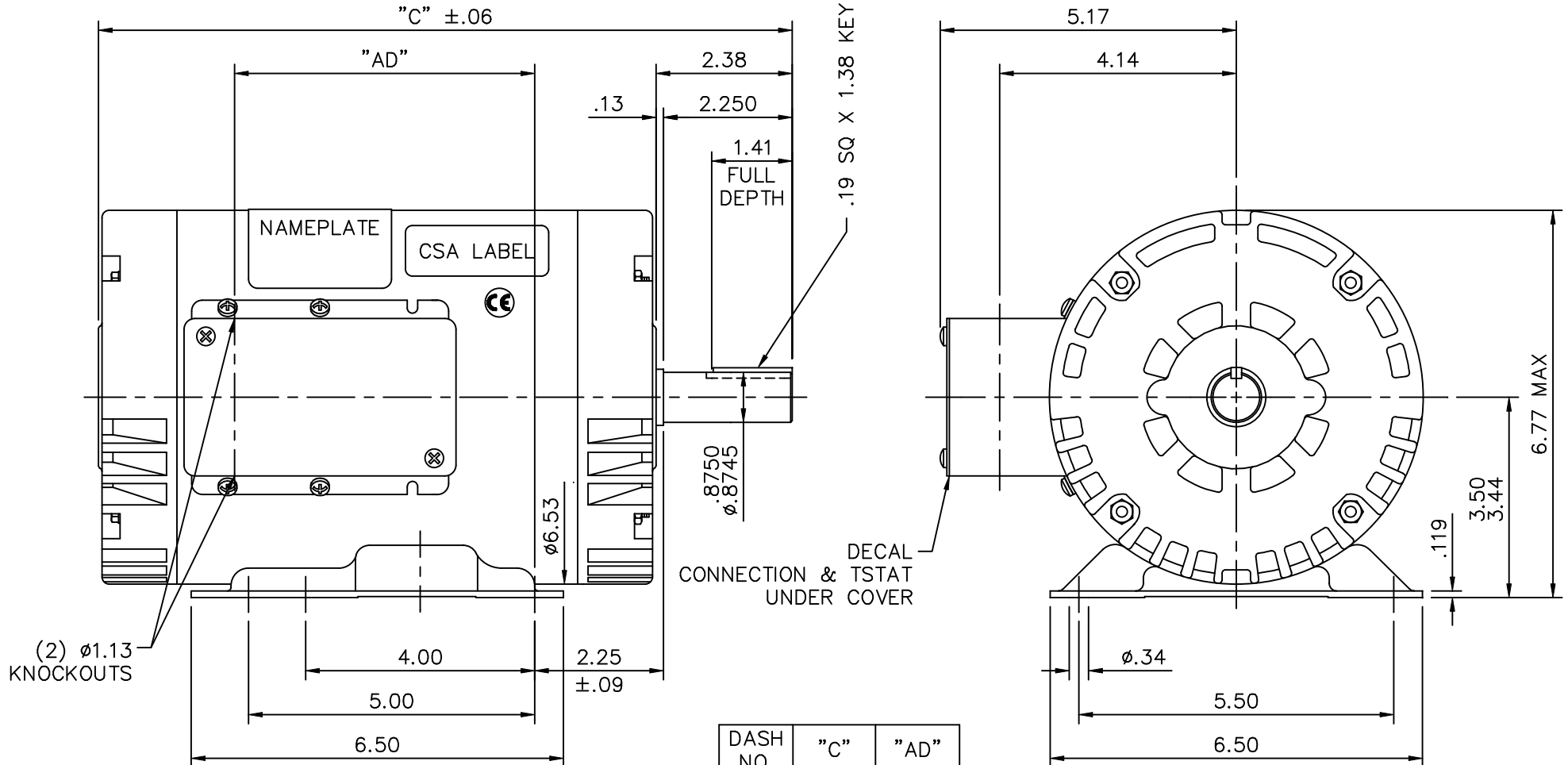
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### Nameplate Specifications

Output HP	<b>1 Hp</b>	Output KW	<b>0.75 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>3.2/1.6 A</b>	Speed	<b>1760 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>85.5 %</b>	Power Factor	<b>68.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>N</b>
Frame	<b>143T</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>Thermostat</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6205</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

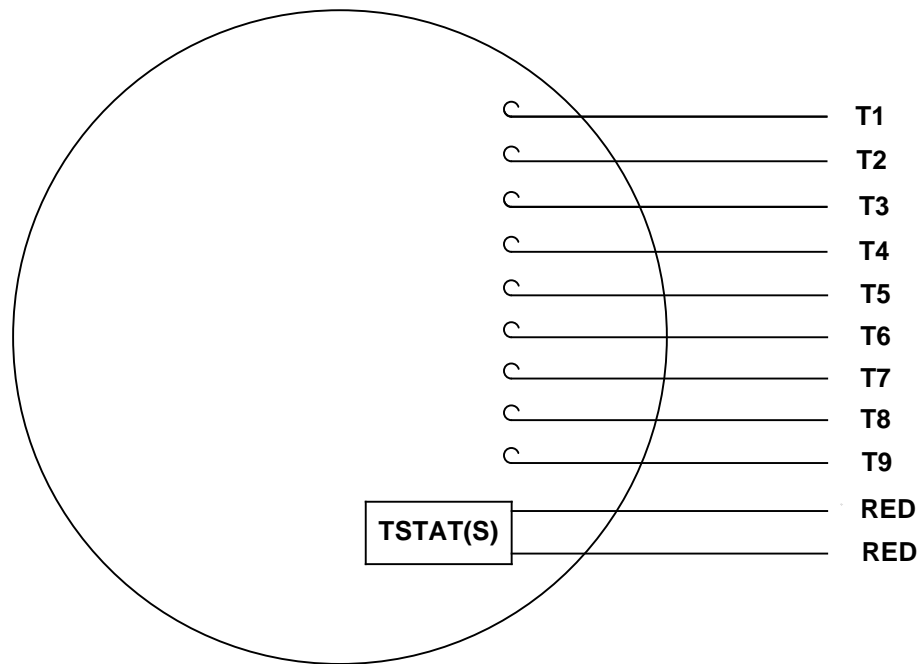
Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>3.24 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>T</b>	Overall Length	<b>12.12 in</b>
Frame Length	<b>7.00 in</b>	Shaft Diameter	<b>0.875 in</b>
Shaft Extension	<b>2.38 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>005010.20ME</b>	Outline Drawing	<b>034908-700</b>



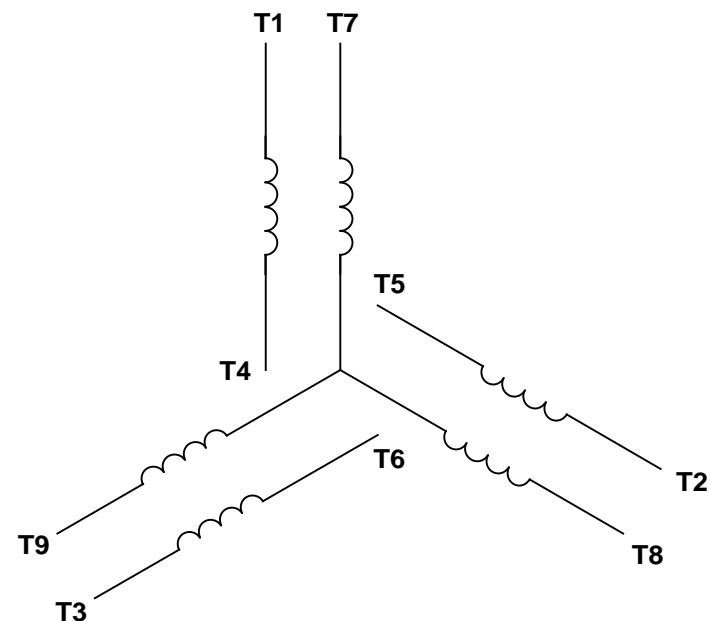
DASH NO.	"C"	"AD"
650	11.62	4.75
700	12.12	5.25
750	12.62	5.75
800	13.12	6.25
850	13.62	6.75

				TOLERANCES UNLESS SPECIFIED				DRAWN RDW 12/13/01		
				DEC. INCHES				CHK		
				.X ±.1				APPD KMM 12/13/01		
				.XX ±.03				SCALE 3=8		
				.XXX ±.005				REF 121003		
01	ADDED CE LABEL	ARV 8/8/05		.XXXX ±.0005	MAT'L.	FMF				
NO.	REVISION	BY & DATE	CHK	ANG ±1/2"	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	12/13/01	CAD FILE	034908	SIZE	DRAWING NO.	REV.
				DIST				A	034908	01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



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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

		TOLERANCES UNLESS SPECIFIED				DRAWN RDW 04/13/04	
		DEC	INCHES			CHK	
		.X	±.1			APPR	
		.XX	±.01			SCALE 1:1	
			.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM		REF
			.XXX	±.0005	3 PHASE		
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11		.XXX	±.0005	MAT'L DECAL - 004014 (TSTAT) - 080582	FMF 129027
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH	PAGE OF
THIRD ANGLE PROJECTION			RFP	PREV			SIZE
			NETWORK FILE NAME 00501020ME			DRAWING NO	
						A	
						005010-20ME	
						REV	
						--	

**CERTIFICATION DATA SHEET**

Model#: 143TTDR6027 AA WINDING#: T634342 DR 3  
 CONN. DIAGRAM: 005010.20ME ASSEMBLY: F1 ONLY  
 OUTLINE: 034908-700

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1&3/4	.75&.56	1800	1760&1450	143T	DP	N	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	3.2/1.6&2.8/1. 4	ACROSS THE LINE	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 85.5&84	3/4 LOAD EFF: 85.2	1/2 LOAD EFF: 81.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 68.5&72	3/4 LOAD PF: 62.8	1/2 LOAD PF: 48	84	SQ CAGE IND RUN	2 / 1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	28 / 14	12 LB-FT 0	15.8 LB-FT 0	21

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.117 LB-FT^2	0.1 LB-FT^2	10 SEC.	2	0 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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

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DATE: 06/22/2017 07:41:22 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.



Data Sheet

Date: 29-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



143TTDR6027

Submittal

Data @ 460 V

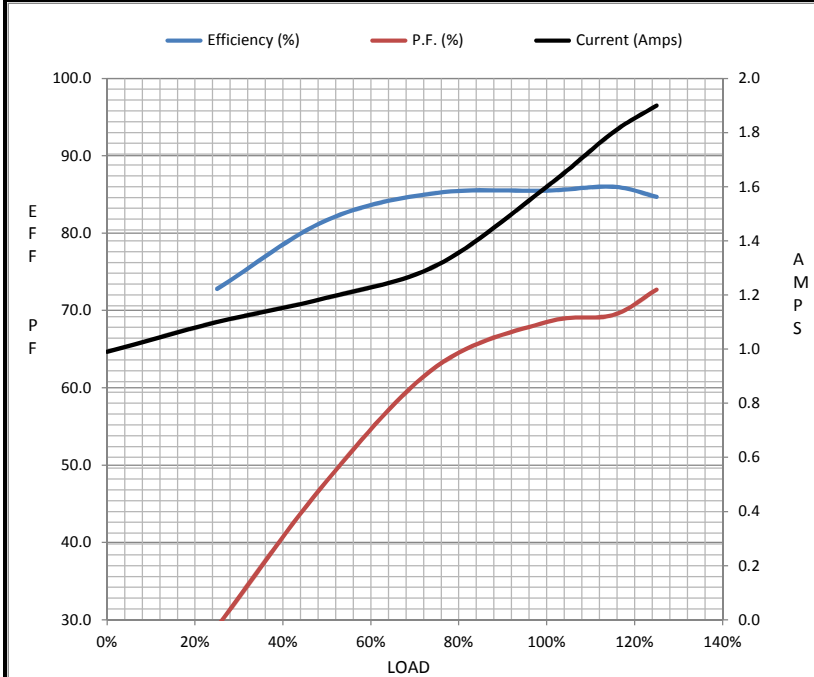
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.99	1.10	1.19	1.31	1.60	1.80	1.90	14.5
Torque (ft-lb)	0.00	0.73	1.47	2.22	2.98	3.4	3.8	12.0
RPM	1800	1791	1780	1770	1760	1,754	1749	0
Efficiency (%)		72.8	81.7	85.2	85.5	86.0	84.7	
P.F. (%)	8.2	29.1	48.0	62.8	68.5	69.4	72.7	0.0

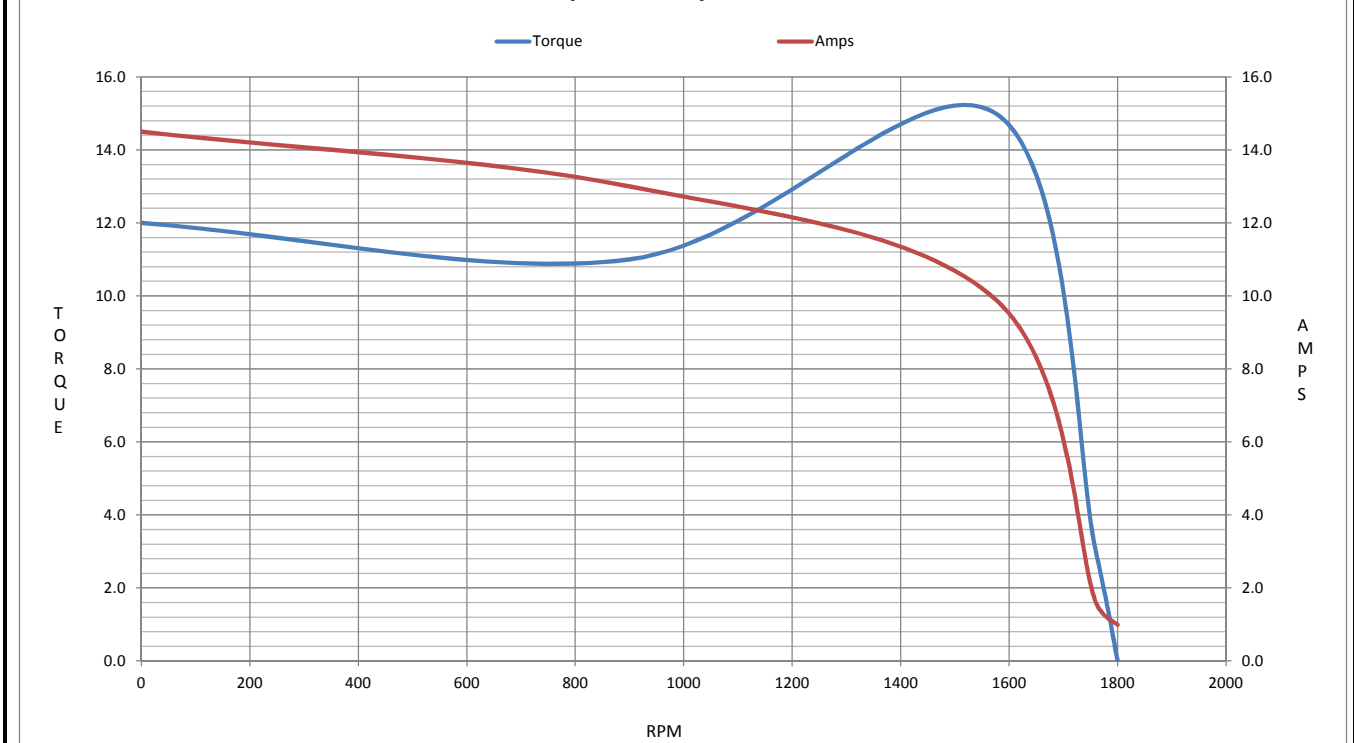
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1575	1760	1800
Current (Amps)	14.5	13.0	9.9	1.60	0.99
Torque (ft-lb)	12.0	11.0	15.0	2.98	0.00

Information Block				
HP	1.0			
Sync. RPM	1800			
Frame	140			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/38(V)			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	21 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.12 Lb-Ft <sup>2</sup>			
Ref Wdg	T634342 DR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	034908-700			
Conn. Diag	005010.20ME			
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 : 143TTDR6027

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

Catalog No : U758

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**