

# PRODUCT INFORMATION PACKET



Model No: LM32778

Catalog No: LM32778

General Purpose Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,  
213TC Frame, DP



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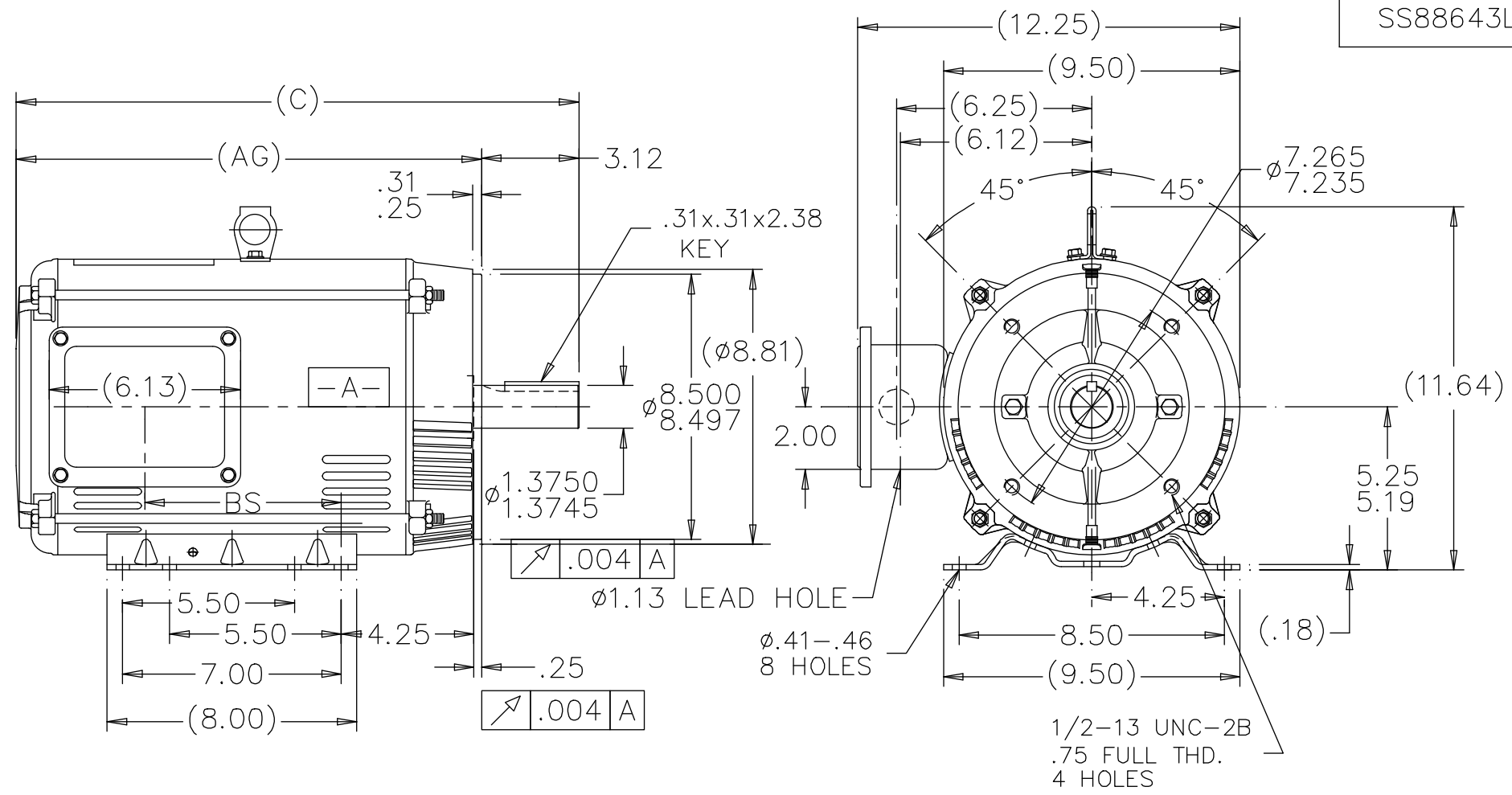
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>10 &amp; 7.5 Hp</b>
Output KW	<b>7.5 &amp; 5.6 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>3515 &amp; 2910 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>213TC</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>89.5 &amp; 87.5 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>23.4/11.7 &amp; 22/11 A</b>	Power Factor	<b>90</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>H</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6206</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>2</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>1.1 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>18.03 in</b>
Frame Length	<b>11.15 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.12 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Connection Drawing	<b>005010.20LN</b>	Outline Drawing	<b>SS88643LN-1115</b>


SS88643LN



NOTES:

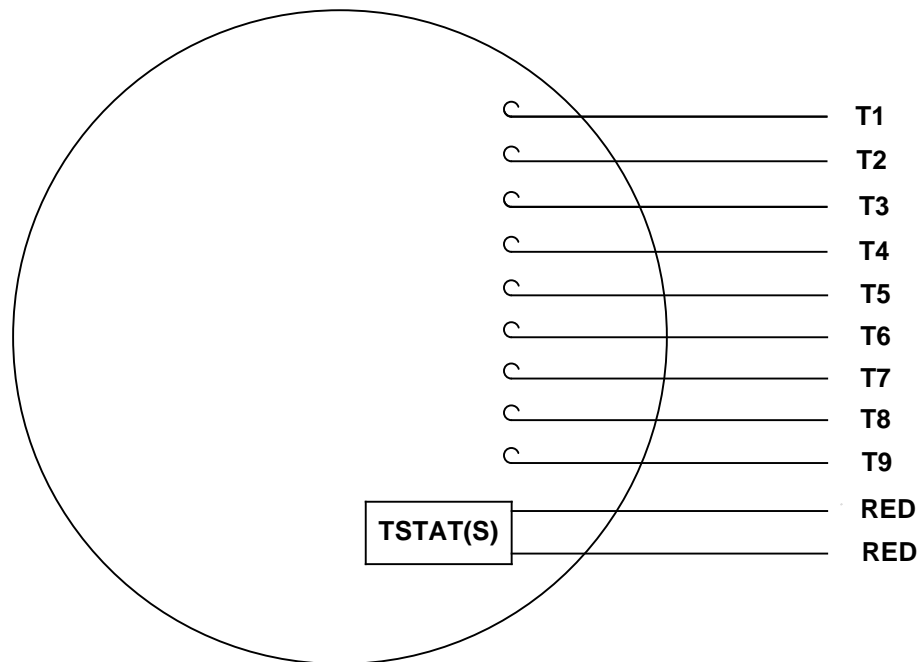
1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180. (EXCEPT AS NOTED)
3. DASH 965 TO BE READ FROM OPPOSITE SHAFT END

DASH	FRAME	C	AG	BS	MOUNTING
1115	213/15TC	18.03	14.91	6.30	F1 / F2
1240	213/15TC	19.28	16.16	7.55	F1 ONLY

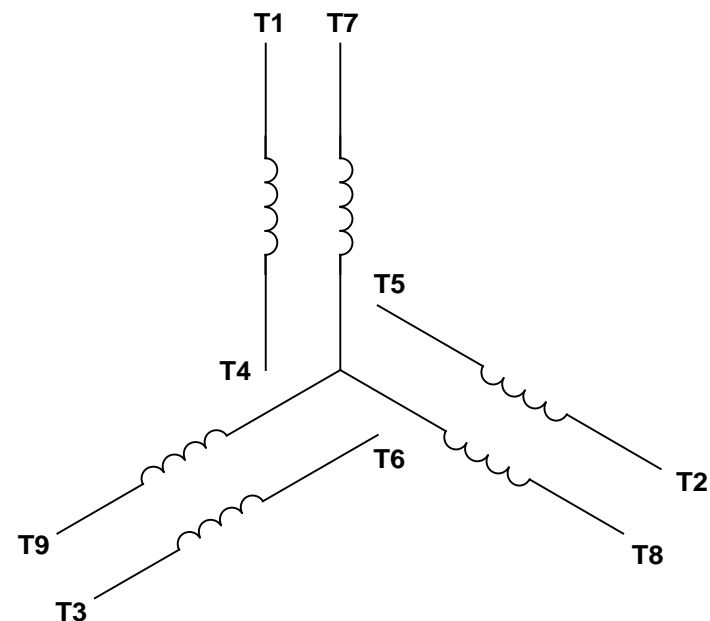
NO.		REVISION	BY & DATE	CHK	ANG	FINISH	TOLERANCES UNLESS SPECIFIED		 TITLE OUTLINE 210TC FR. - BB - TS - DR.PR.	DRAWN UD 01/31/13			
							DEC.	INCHES		CHK SM 01/31/13			
							.X	±.1		APPD			
							.XX	±.03		SCALE 1=5			
							.XXX	±.005		REF SS88643LE			
							.XXX <td>±.005 <td colspan="2">FMP MU108472</td> </td>	±.005 <td colspan="2">FMP MU108472</td>	FMP MU108472				
							.XXXX <td>±.0005 <td colspan="2">PREV</td> </td>	±.0005 <td colspan="2">PREV</td>	PREV				
							±1/2' <td></td> <td colspan="2">DRAWING NO. PAGE 1 OF 1 REV.</td>		DRAWING NO. PAGE 1 OF 1 REV.				
							RFP		CAD FILE	SS88643LN	SIZE A	SS88643LN	
							DIST LB						

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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

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				TOLERANCES UNLESS SPECIFIED				DRAWN KK 3/17/2011	
				DEC	INCHES			CHK ST 3/17/2011	
				.X	±.1			APPR	
				.XX	±.01			SCALE 1:1	
				.XXX	±.005			REF 005010-20	
				.XXXX	±.0005	MAT'L DECAL - 004014 (TSTAT) - 080582		FMF	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH STOCK		PAGE	OF
THIRD ANGLE PROJECTION			RFP		PREV	SIZE	DRAWING NO		REV
					NETWORK FILE NAME 00501020LN		A	005010-20LN	



**2100 WASHINGTON ST.  
GRAFTON, WI  
PH. 262-277-8810**

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** 005010.20LN

**CATALOG #:** LM32778

**OUTLINE:** A-SS88643LN-1115

**WINDING #:** K213282 R5 1

**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	3600	3515&2910	213TC	DP	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	23.4/11.7&22/11	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40

FULL LOAD EFF:	89.5&87.5	3/4 LOAD EFF:	89.5	1/2 LOAD EFF:	88.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	90&90	3/4 LOAD PF:	87.5	1/2 LOAD PF:	81	86.5	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	162 / 81	25 LB-FT 167 %	46.5 LB-FT 310 %	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	0.45 LB-FT^2	5 LB-FT^2	15 SEC.	2	105 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	GRAY - GE

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6309	6206						

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

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<b>INVERTER TORQUE:</b> NONE
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE NONE NONE NONE NONE PPR
<b>BRAKE:</b> NONE NONE NONE P/N NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/29/2018

LM32778



Data @ 460 V

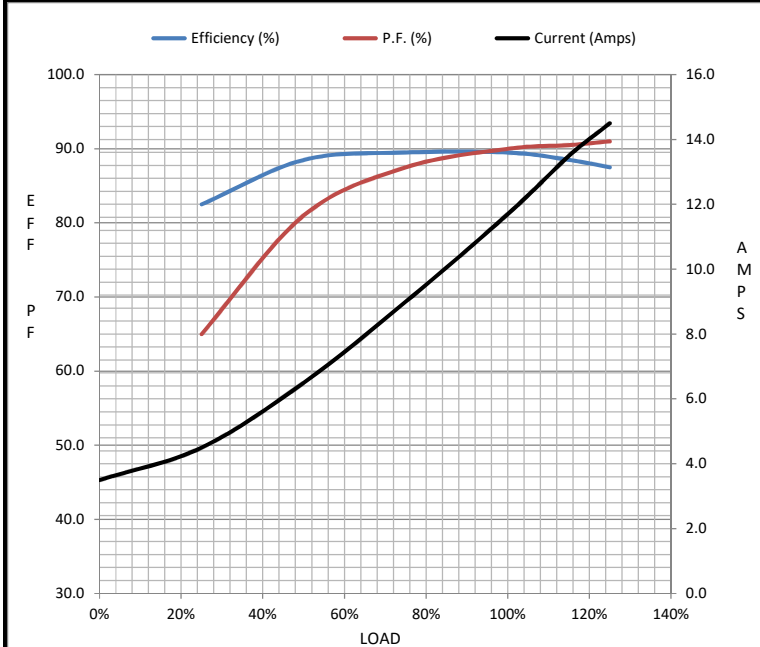
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.5	4.5	6.5	9.0	11.7	13.5	14.5	81.0
Torque (ft-lb)	0.00	3.7	7.4	11.1	15.0	17.5	18.8	25.0
RPM	3600	3580	3560	3540	3515	3,505	3490	0
Efficiency (%)		82.5	88.5	89.5	89.5	88.5	87.5	
P.F. (%)	13.0	65.0	81.0	87.5	90.0	90.5	91.0	43.0

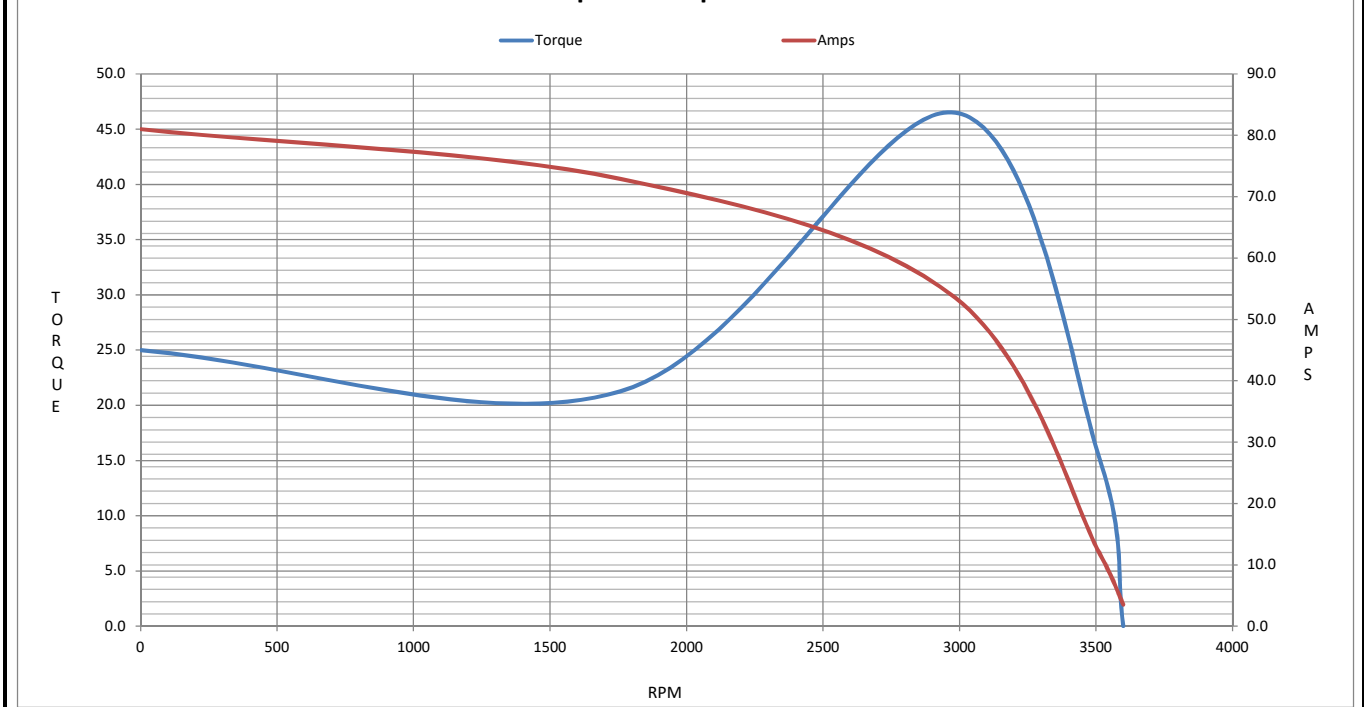
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1758	2985	3515	3600
Current (Amps)	81.0	72.9	53.5	11.7	3.5
Torque (ft-lb)	25.0	21.3	46.5	15.0	0.00

Information Block				
HP	10.0			
Sync. RPM	3600			
Frame	213			
Enclosure	DP			
Construction	TDW			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	25 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.45 Lb-Ft <sup>2</sup>			
Ref Wdg	K213282 R5			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	A-SS88643LN-1115			
Conn. Diag	005010.20LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.6160	0.4350	1.9260	1.0760	60.7760



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 : LM32778

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

Catalog No : LM32778

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**