

PRODUCT INFORMATION PACKET

Model No: LM32842

Catalog No: LM32842

General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 286TSC Frame, TEFC



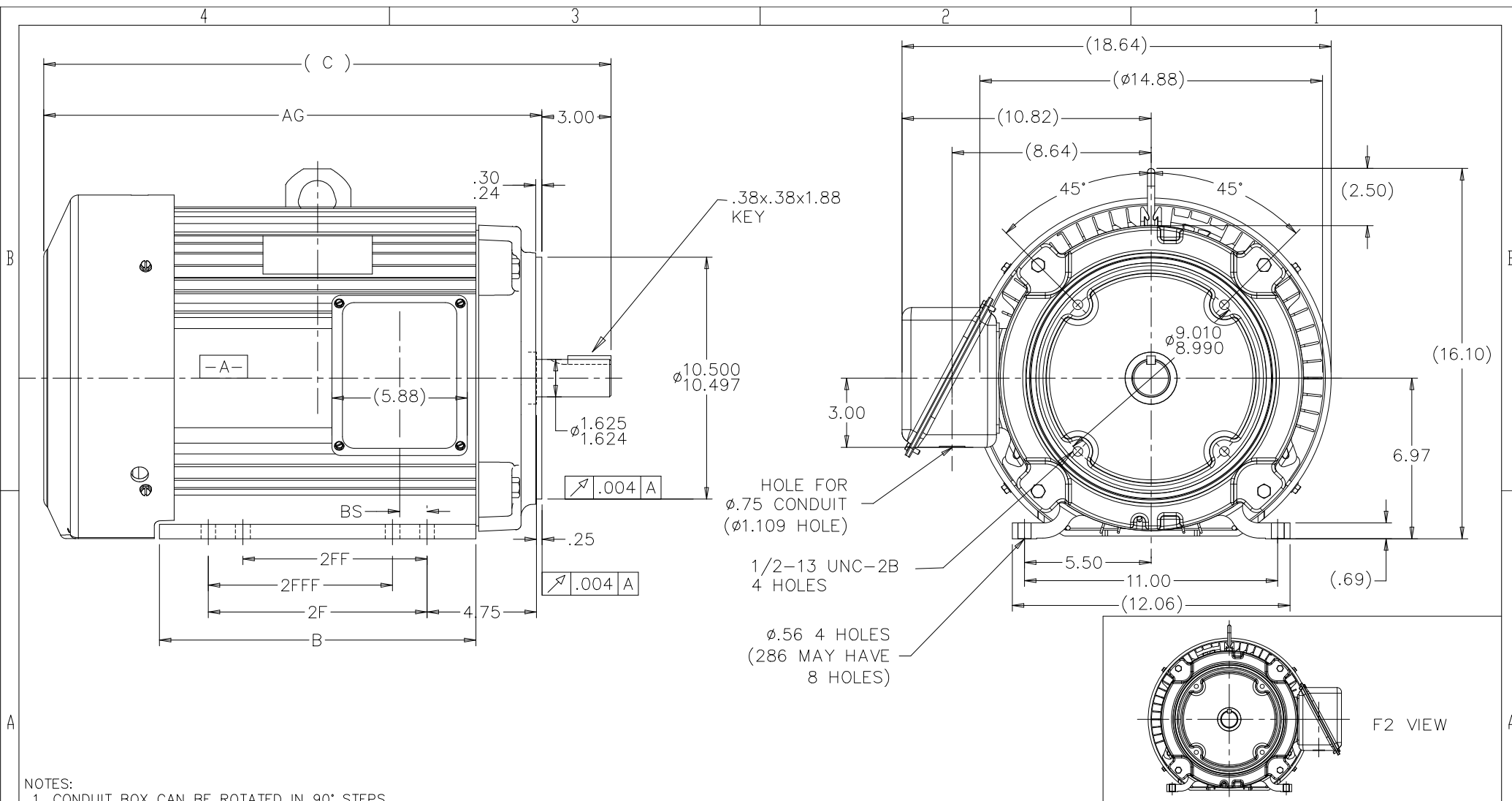
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Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	230/460 V
Current	75.0/37.5 A	Speed	1770 rpm
Service Factor	1.25	Phase	3
Efficiency	93.6 %	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286TSC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	312	Opp Drive End Bearing Size	209
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

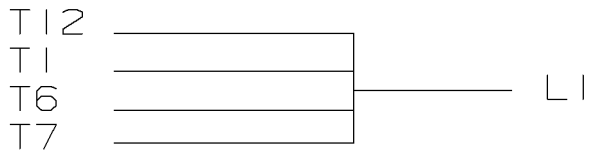
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.2 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	TS	Overall Length	26.63 in
Frame Length	15.25 in	Shaft Diameter	1.625 in
Shaft Extension	3.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XF5F1SC2-1525	Connection Drawing	A-EE7308AA-LN



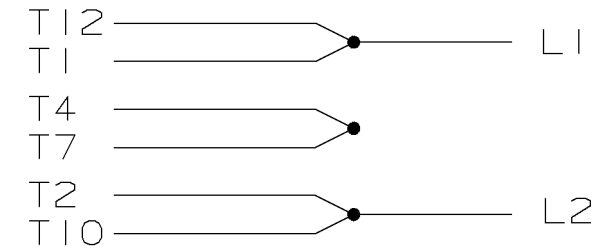
- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	C	AG	2F	2FF	2FFF	BS
1375	284TSC	24.64	21.64	9.50			1.69
1525	286TSC	26.14	23.14	11.00	9.50	9.50	1.69

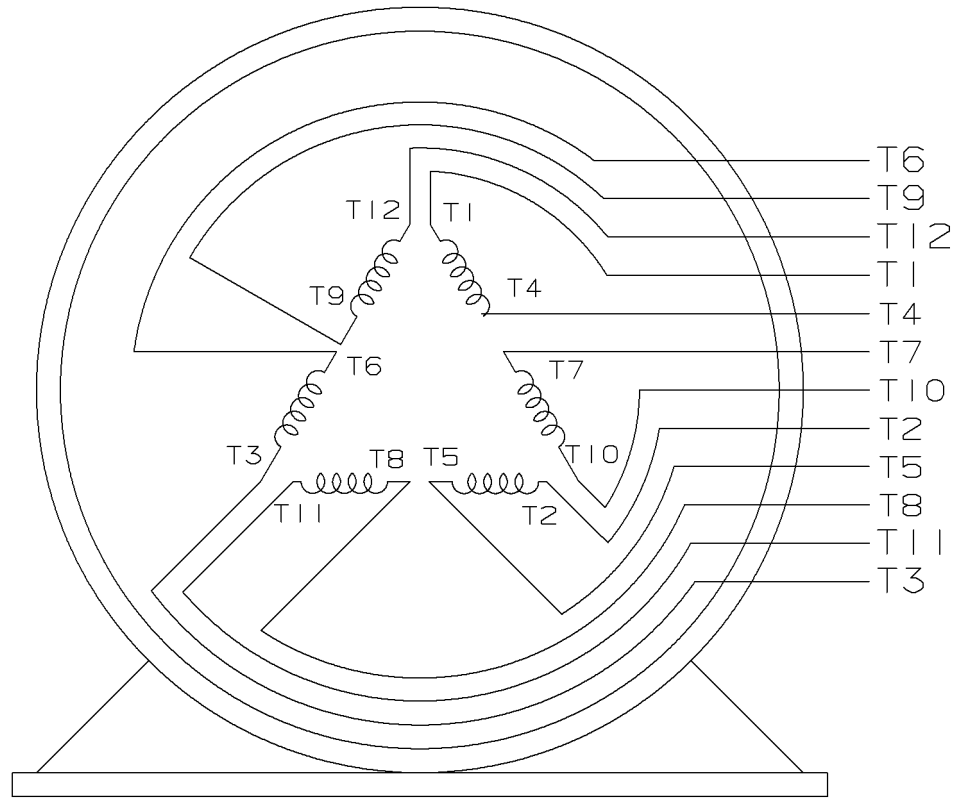
DRAWING REVISION	REVISION BY	SP	REV DATE / © DATE	06/29/2021	TOLERANCES (EXCEPT AS NOTED):	ANGLE	DRAWN BY	NJS	Regal Beloit America, Inc.				
ECD	APPROVED BY	AS	DATE	06/29/2021	DEC. INCH MM .X ± 0.1 (± 0.3) .XX ± 0.01 (± 0.3) .XXX ± 0.005 (± 0.13) .XXX ± 0.005 (± 0.13) REMOVE BURRS & BREAK SHARP EDGES: .003/.015 (.08/.38) X 45° CORNER FILLETS: R02 (L5) MACHINED SURFACES:	± 0.5°	DATE	03/11/2003					
ECCD DESCRIPTION					3C223-F3 FAN GUARD REPLACED WITH 310031A					DESCRIPTION	OUTLINE		
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					THIRD ANGLE PROJECTION					DRAWING NUMBER	XF5F1SC2	SHEET	1 OF 1



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

					✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"			
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR		MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY TRB 07-16-1999	
1	06-18-1999	NEW DRAWING	TRB	FINISH		CHKD BY ML 06-18-1999		
				MATERIAL		APPD BY GK 06-18-1999		
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308AA-LN	

PURCHASED

CADD FILE NO.

EE7308AALN

ERROR: undefined
OFFENDING COMMAND: Pscrip

STACK:



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308AA-LN

OUTLINE: XF5F1SC2-1525

CATALOG #: LM32842

WINDING #: L2864020 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
30&25	22.4&18.7	1800	1770&1470	286TSC	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	75/37.5&76/38	WYE START DELTA RUN	CONTINUOUS	F3	1.25/1.15	40

FULL LOAD EFF:	93.6&93	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	93.6	GTD. EFF	92.4	ELEC. TYPE	SQ CAGE IND RUN
FULL LOAD PF:	80&80	3/4 LOAD PF:	77	1/2 LOAD PF:	69				

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
88.5 LB-FT	416 / 208	205 LB-FT 230 %	213 LB-FT 240 %	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	5.3 LB-FT^2	- LB-FT^2	- SEC.	-	- 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 (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
BALL	BALL						
312	209						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	FALSE	NONE VOLTS
NONE	NOT	NONE	NONE			

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

Data Sheet

Date: 1/19/2018

LM32842



Data @ **460 V**

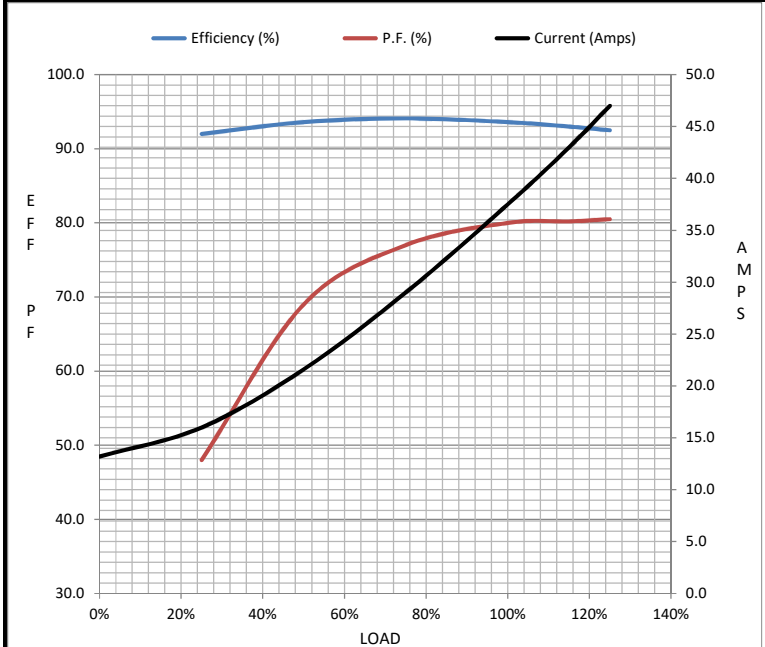
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	13.2	16.0	21.6	29.0	37.5	43.0	47.0	208
Torque (ft-lb)	0.00	22.0	44.0	66.5	88.5	103	112	205
RPM	1800	1795	1785	1780	1770	1.765	1755	0
Efficiency (%)		92.0	93.6	94.1	93.6	93.0	92.5	
P.F. (%)	3.7	48.0	69.0	77.0	80.0	80.2	80.5	42.0

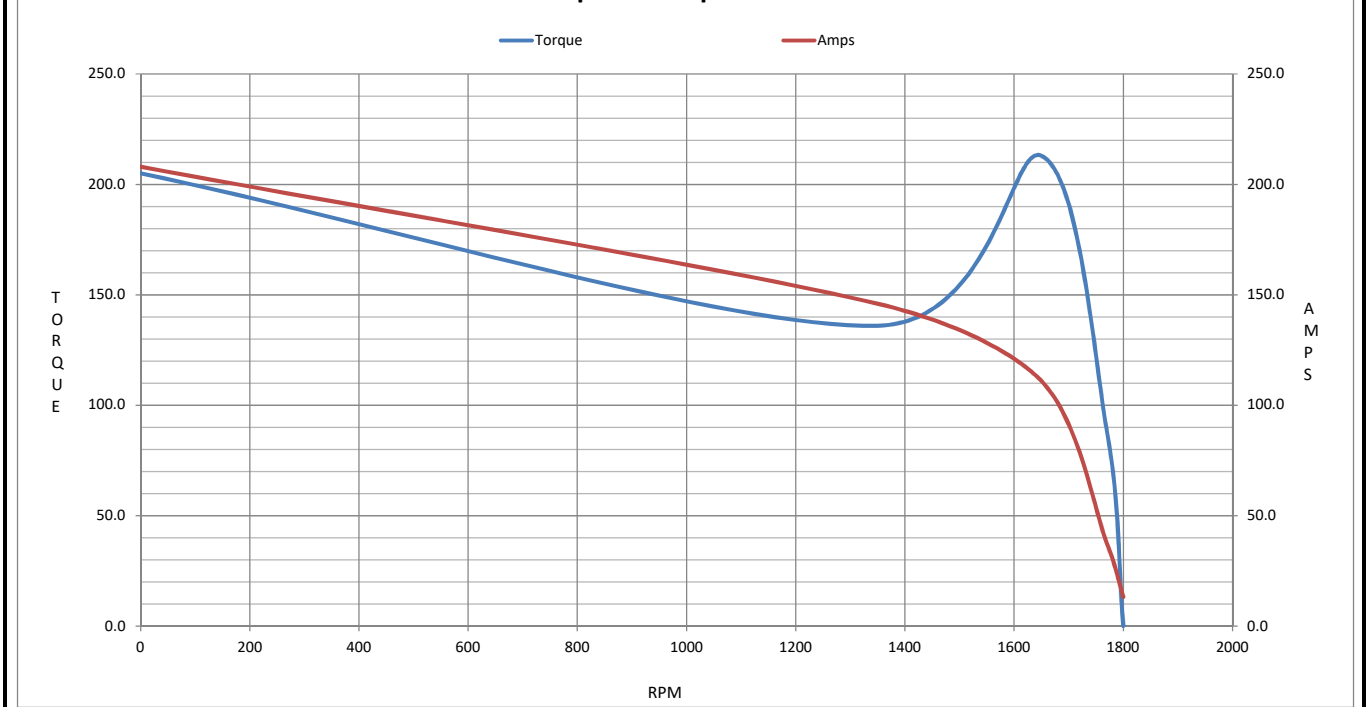
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1350	1650	1770	1800
Current (Amps)	208	146	111	37.5	13.2
Torque (ft-lb)	205	136	213	88.5	0.00

Information Block				
HP	30.0			
Sync. RPM	1800			
Frame	286			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	5.3 Lb-Ft ²			
Ref Wdg	L2864020 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	XF5F1SC2-1525			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1400	0.0950	0.6750	1.2830	17.0100



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 : LM32842

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

Catalog No : LM32842

Rework No : N/A

Directives :

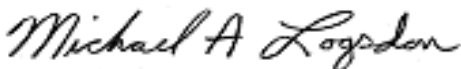
Low Voltage Directive 2014/35/EU

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