

PRODUCT INFORMATION PACKET



Model No: LM33595
Catalog No: LM33595
Encoder Motor, 2 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182TC Frame, TENV



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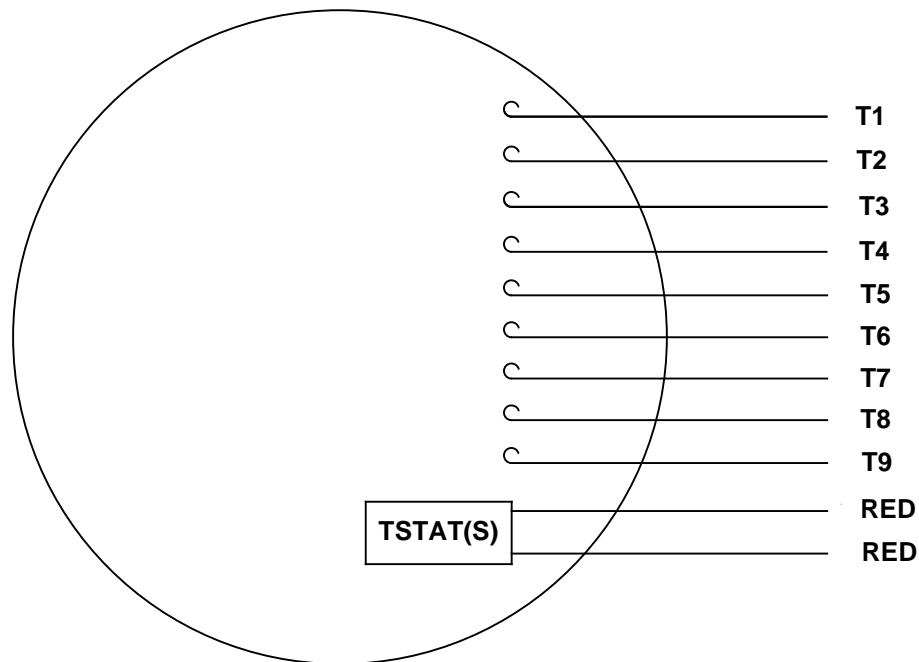
Nameplate Specifications

Phase	3	Output HP	2 Hp
Output KW	1.5 kW	Voltage	230/460 V
Speed	1770 rpm	Service Factor	1.0
Frame	182TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Efficiency	84 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	6.6/3.3 A	Power Factor	69
Duty	Continuous	Insulation Class	F
Design Code	INV	KVA Code	T
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

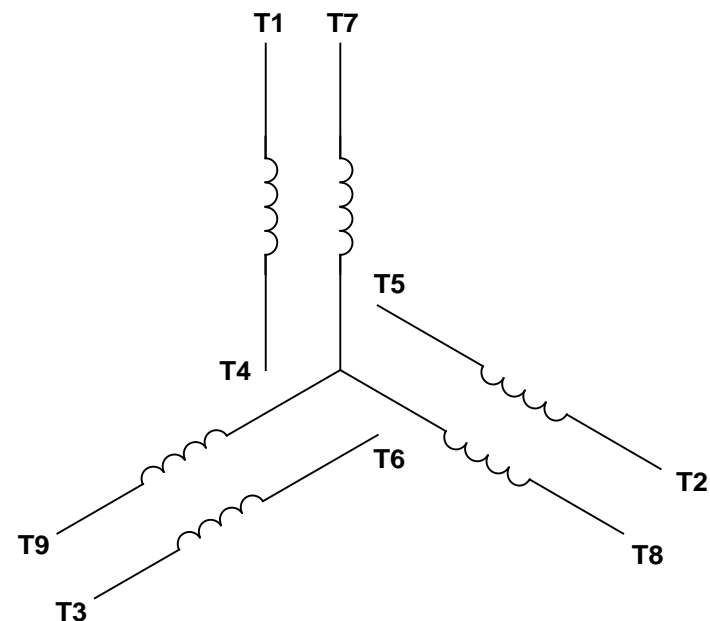
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	T	Overall Length	19.84 in
Frame Length	9.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 100:1		
Connection Drawing	005010.20LN	Outline Drawing	036130LN-950

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
OUTLINE: 036130LN-950
WINDING #: T84180 R2 3

CATALOG : LM33595

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	1800	1770	182TC	TENV	T	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	6.6/3.3	INVERTER ONLY	CONTINUOUS	F4	1.0	40

FULL LOAD EFF:	84	3/4 LOAD EFF:	82.5	1/2 LOAD EFF:	75.5	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	69	3/4 LOAD PF:	81	1/2 LOAD PF:	50	81.5		SQ CAGE INV DUTY	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	95 / 47.5	41.8 LB-FT 697 %	47.6 LB-FT 793 %	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.42 LB-FT^2	0 LB-FT^2	0 SEC.	0	110 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	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	1144 STRESSPROOF (C-223)	ALUMINUM
6207	6206						

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

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INVERTER TORQUE: CONSTANT 100:1
INV. HP SPEED RANGE: NONE
ENCODER: REGAL SUPPLIED - REGAL MOUNT DYNAPAR 625 LINCOLN MS CONNECTOR 1024 PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/23/2018

LM33595



Data @ 460 V

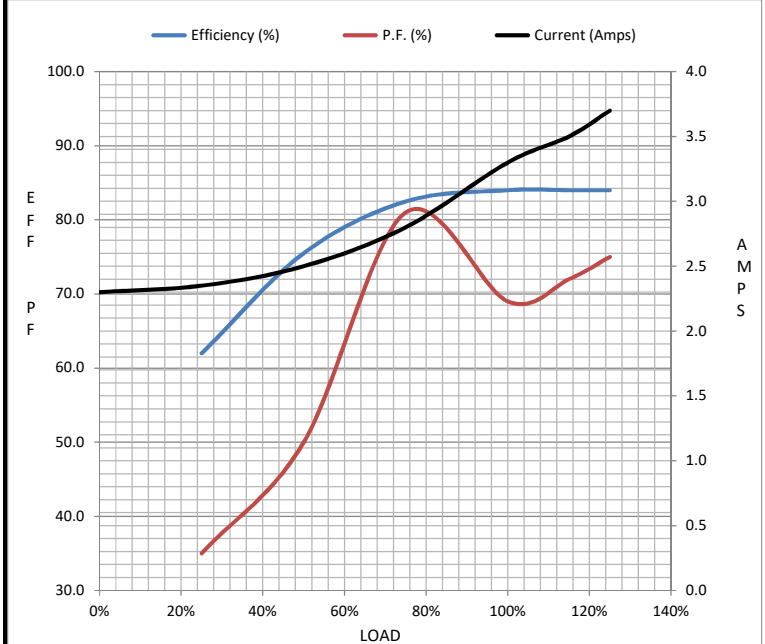
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.30	2.35	2.50	2.80	3.3	3.5	3.7	47.5
Torque (ft-lb)	0.00	1.50	2.95	4.4	6.0	6.7	7.5	41.8
RPM	1800	1793	1787	1780	1770	1.767	1762	0
Efficiency (%)		62.0	75.5	82.5	84.0	84.0	84.0	
P.F. (%)	10.5	35.0	50.0	81.0	69.0	72.0	75.0	59.5

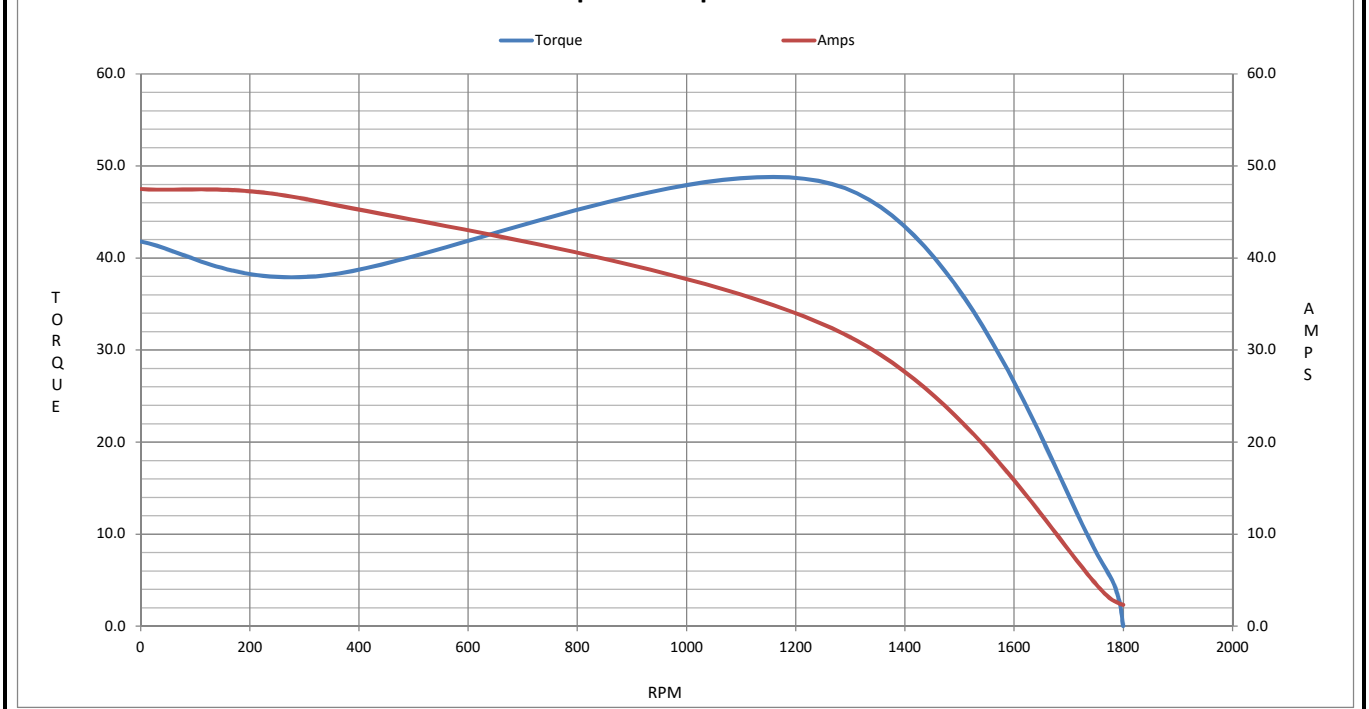
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	320	1290	1770	1800
Current (Amps)	47.5	46.2	31.7	3.3	2.30
Torque (ft-lb)	41.8	38.0	47.6	6.0	0.00

Information Block				
HP	2.0			
Sync. RPM	1800			
Frame	184			
Enclosure	TENV			
Construction	TTY			
Voltage	230/460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	T			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.42 Lb-Ft ²			
Ref Wdg	T84180 R2			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 100:1			
Outline Dwg	036130-950			
Conn. Diag	005010.20LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.5780	1.4470	2.8380	2.0910	94.1300



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 : LM33595

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

Catalog No : LM33595

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