

PRODUCT INFORMATION PACKET



Model No: 120990.00

Catalog No: 120990.00

Special Voltage Motor, 2 HP, 1 Ph, 50 Hz, 110/220 V, 3000 RPM, 145TC Frame, TEFC



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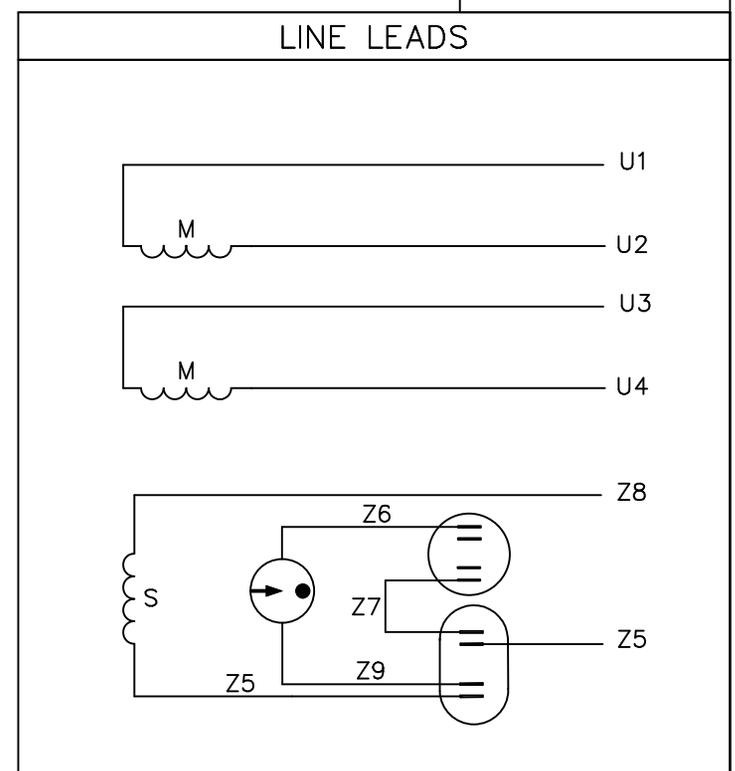
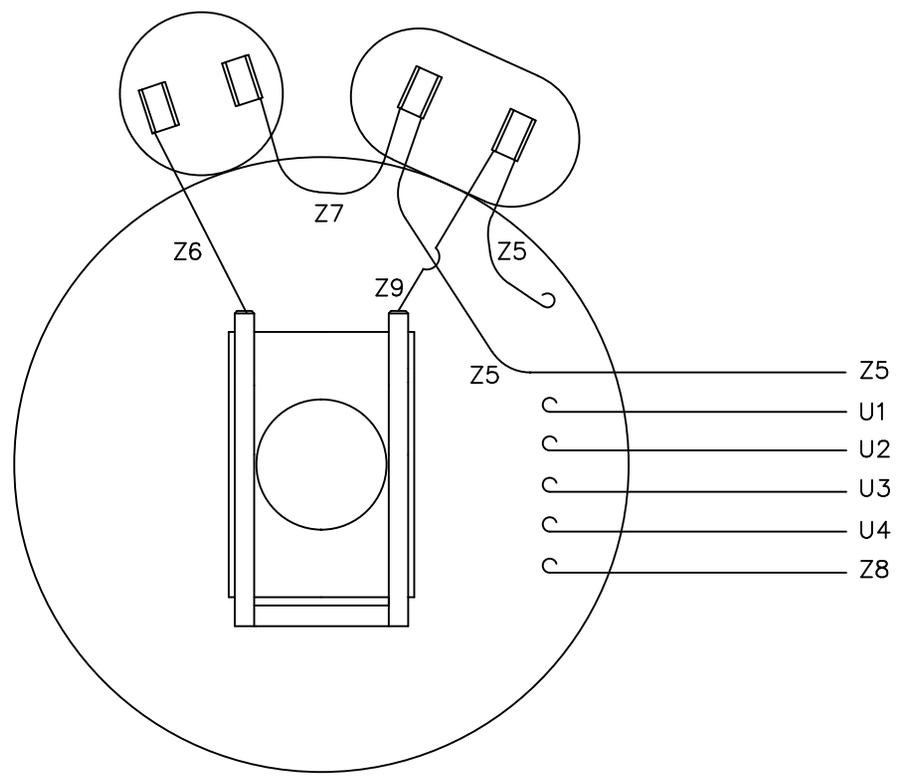
Nameplate Specifications

Phase	1	Output HP	2 Hp
Output KW	1.5 kW	Voltage	110/220 V
Speed	2850 rpm	Service Factor	1.15
Frame	145TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	84 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	17.2/8.6 A	Power Factor	92
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	H
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	54
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	1.06 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	13.93 in
Frame Length	8.00 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	028864-800B	Connection Drawing	005414.01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



	ROTATION FACING LEAD END	L1	L2	JOIN & INSULATE
HIGH VOLT	C.C.W.	U1	U4 Z5	U2,U3 Z8
	C.W.	U1	U4 Z8	U2,U3 Z5
LOW VOLT	C.C.W.	U1,U3 Z8	U2,U4 Z5	----
	C.W.	U1,U3 Z5	U2,U4 Z8	----

TOLERANCES UNLESS OTHERWISE SPECIFIED	
DECIMALS	
.00	± .01
.000	± .005
.0000	± .0005

LEESON ELECTRIC CORPORATION

DRAWN DBT 07/21/97	TITLE	EXTERNAL WIRING DIAGRAM
CH'K'D.		TYPE "K" W/O PROTECTOR
APPR.	MAT'L.	DECAL - 080642

NO.	REVISION	BY	DATE	FRACTIONS	± 1/64	SCALE	1=1	ANGLES	± 1/2"	REF.	005018-01	FINISH	I.E.C.	SIZE	A	DRAWING NO.	005414-01
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										FMF		MARKINGS					



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005414.01
OUTLINE: 028864-800B
WINDING #: K632142 FR 4 A

CATALOG #: 120990.00
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	3000	2850	145TC	TEFC	H	NO DESIGN CODE

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	50	110/220	17.2/8.6	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	84	3/4 LOAD EFF:	86.3	1/2 LOAD EFF:	82.8	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	92	3/4 LOAD PF:	88.7	1/2 LOAD PF:	82	81.5	CAP START CAP RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3.6 LB-FT	126 / 63	10.4 LB-FT 289 %	9.7 LB-FT 269 %	77

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.1 LB-FT^2	0.1 LB-FT^2	0 SEC.	0	50 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

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)	ROLLED STEEL
6205	6203						

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

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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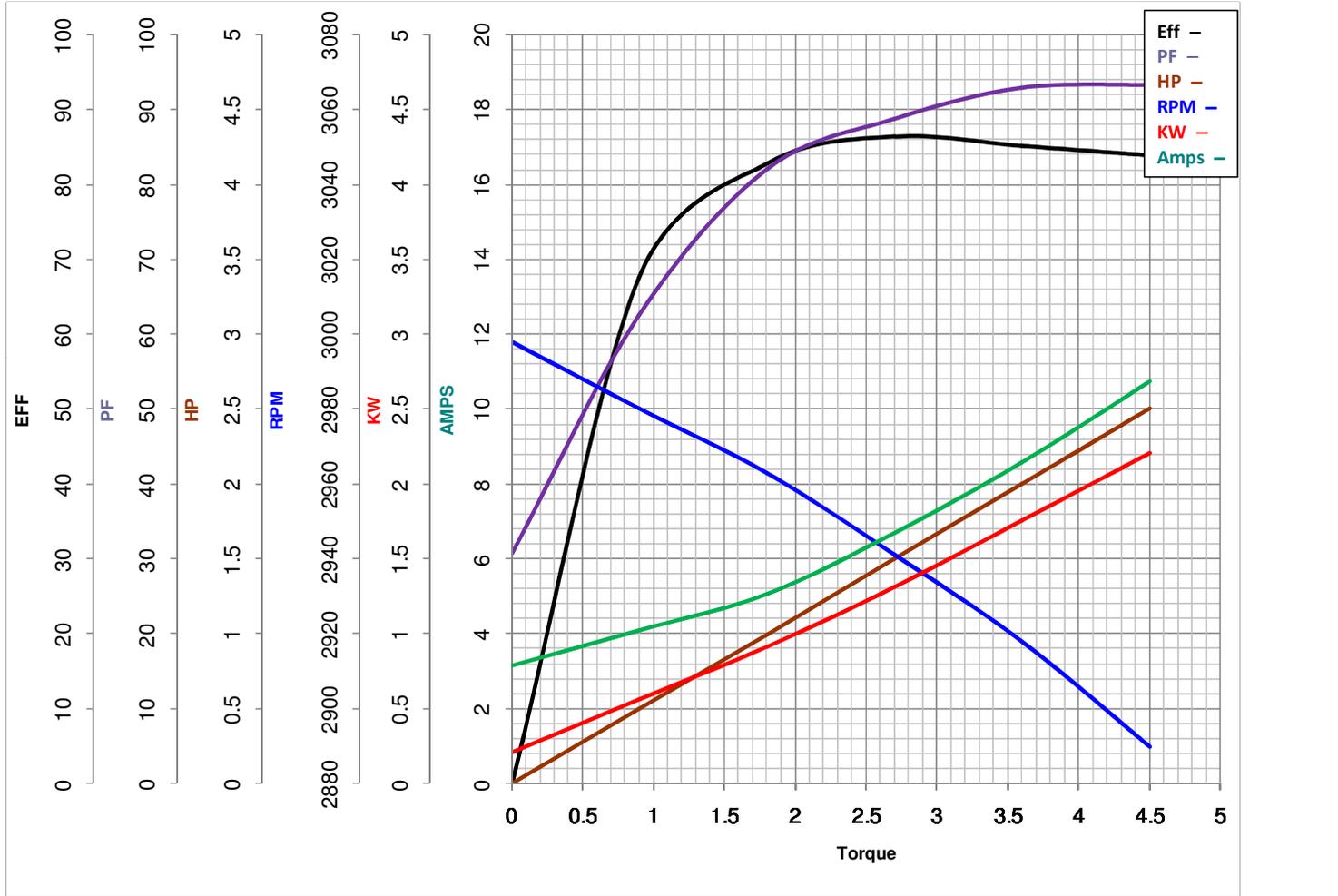
LEESON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 120990.00

Catalog No 120990.00

Curve at 230 Volts HP 2.00 PHASE 1
50 HZ
2 HP VOLTS 110/220

HZ 50 RPM 2850



Torque in Lb.Ft

FL TORQUE 3.6 Lb.Ft
BD TORQUE 9.7 Lb.Ft
LR TORQUE 10.4 Lb.Ft

FL AMPS 17.2/8.6
PU TORQUE 9.4 Lb.Ft
LR AMPS 63

WINDING K632142-4

Date 3/27/2018

EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
1946 West Cook Road
Fort Wayne, IN 46818

and the authorized representative
established within the Community:

Regal Beloit Italy
Via Modena, 18
24040 Ciserano(BG) - Italy

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 : 120990.00

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

Catalog No : 120990.00

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:



Zach Stauffer
Vice President, Engineering

Authorized Representative in the Community:



Stefano Casiraghi
Technology Director, Engineering

Created on 07/08/2025

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