

PRODUCT INFORMATION PACKET

Model No: LM24105

Catalog No: LM24105

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 56 Frame, TEFC



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Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	230/460 V
Current	2.7/1.4 A	Speed	1140 rpm
Service Factor	1.15	Phase	3
Efficiency	68 %	Power Factor	52.3
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Frame	56	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	9.2 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	11.82 in
Frame Length	6.56 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	108649-656	Connection Drawing	EE7308-LN

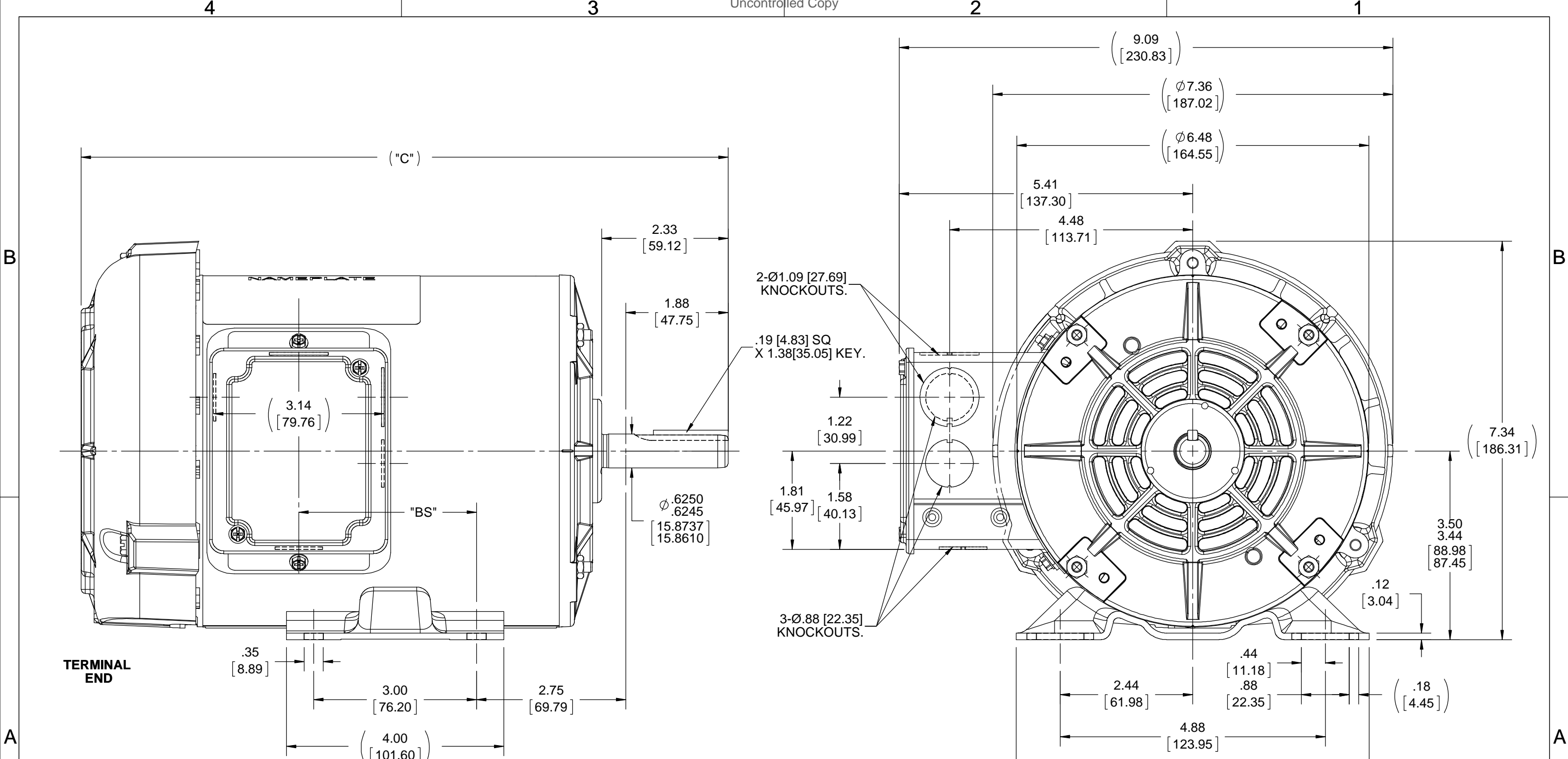
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3

Uncontrolled Copy

2

1



NOTE:-
 1) NAMEPLATE READ FROM CONDUIT BOX SIDE.
 2) CONDUIT BOX CAN BE ROTATED IN 180° STEPS.

DRAWING REVISION A		REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY A.SUPPANAVAR		Regal Beloit America, Inc.		
ECO ECO-0136109		APPROVED BY	DATE	DEC.	INCH	mm	ANGLE			DATE 03/29/2018
ECO DESCRIPTION OUTLINE CONVERSION PROJECT				.X	±0.1	[±2.5]	±7° 30"	APPROVED BY PST	DESCRIPTION OUTLINE	
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				.XXX	±0.005	[±0.127]		REFERENCE 100086LN	MATERIAL	PROCESS/FINISH
				.XXX	±0.0005	[±0.0127]		THIRD ANGLE PROJECTION	MATERIAL	
				REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51]				SIZE B	DRAWING NUMBER 108649	SHEET 1 OF 1
				MACHINED SURFACES: 200 INCH/mm 5.1						
				mm SHOWN IN [BRACKETS]						

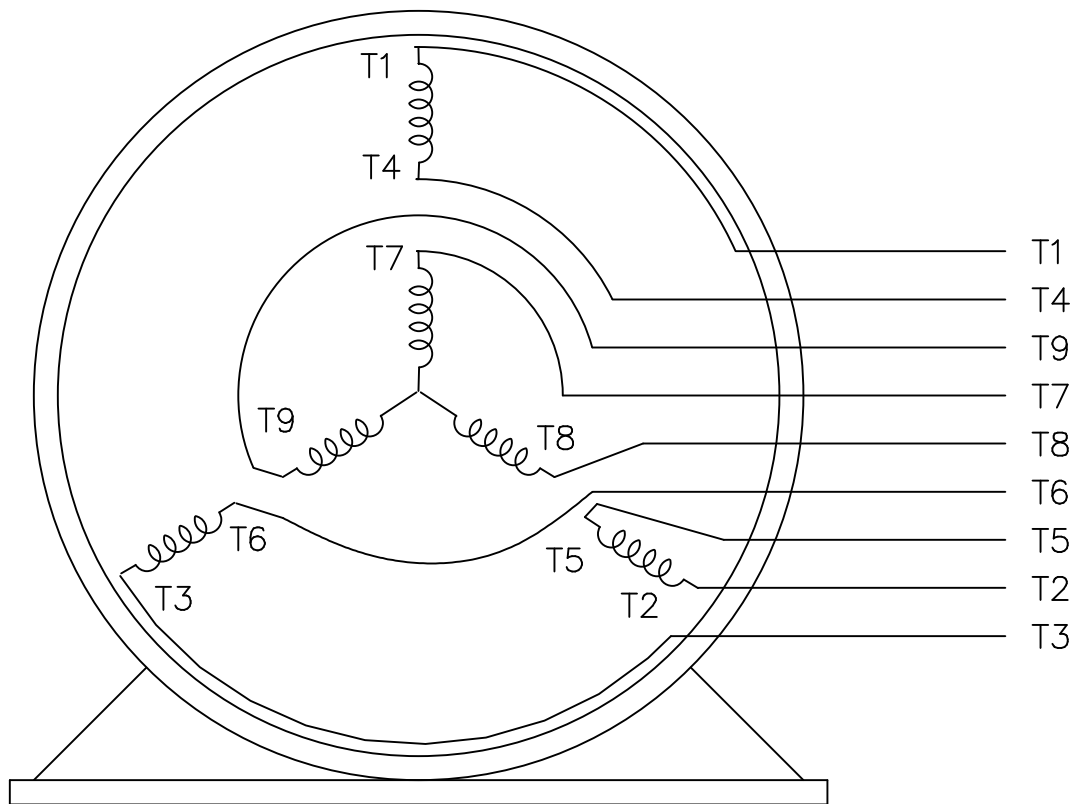
DASH	FR.	"C"	"BS"
656	56-65	11.91 [302.51]	3.28 [83.31]

THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD
CONNECTION

L1 — WHITE —
L2 — RED —
L3 — BLACK —

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN	DATE	SCALE	REV.
				DEC.	INCHES					
				.X	±.1		BLR	06/11/1999		
							ML	06/18/1999		
							GK	06/18/1999		
3	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XX	±.02	TITLE CONNECTION DIAGRAM			1=1	
2	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR 08/09/1999	GK	.XXX	±.005	3∅ - DUAL VOLTAGE MOTOR				
1	NEW DRAWING	BLR 06/18/1999	GK	.XXXX	±.0005	MAT'L.				
				ANG	±7'30"					
			RFP			CAD FILE EE7308LN	SIZE A	DRAWING NO. EE7308-LN	PAGE OF	3
			DIST WP							





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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308-LN

OUTLINE: A-108649-656

CATALOG:LM24105

WINDING #: ZT606 3

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2&1/2	0.37&0.37	1200	1140&950	56	TEFC	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	2.7/1.35&2.6/1.3	ACROSS THE LINE	CONTINUOUS	F3	1.15/1.0	40

FULL LOAD EFF: 68&67	3/4 LOAD EFF: 66.5	1/2 LOAD EFF: 58.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF: 52.3&55.5	3/4 LOAD PF: 44	1/2 LOAD PF: 34.5	64	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
2.3 LB-FT	12.4 / 6.2	7.2 LB-FT 313 %	9 LB-FT 391 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.05 LB-FT^2	20 LB-FT^2	15 SEC.	2	24 LBS.

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

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6203	6203						

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

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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 NONE FT-LB NONE V NONE Hz



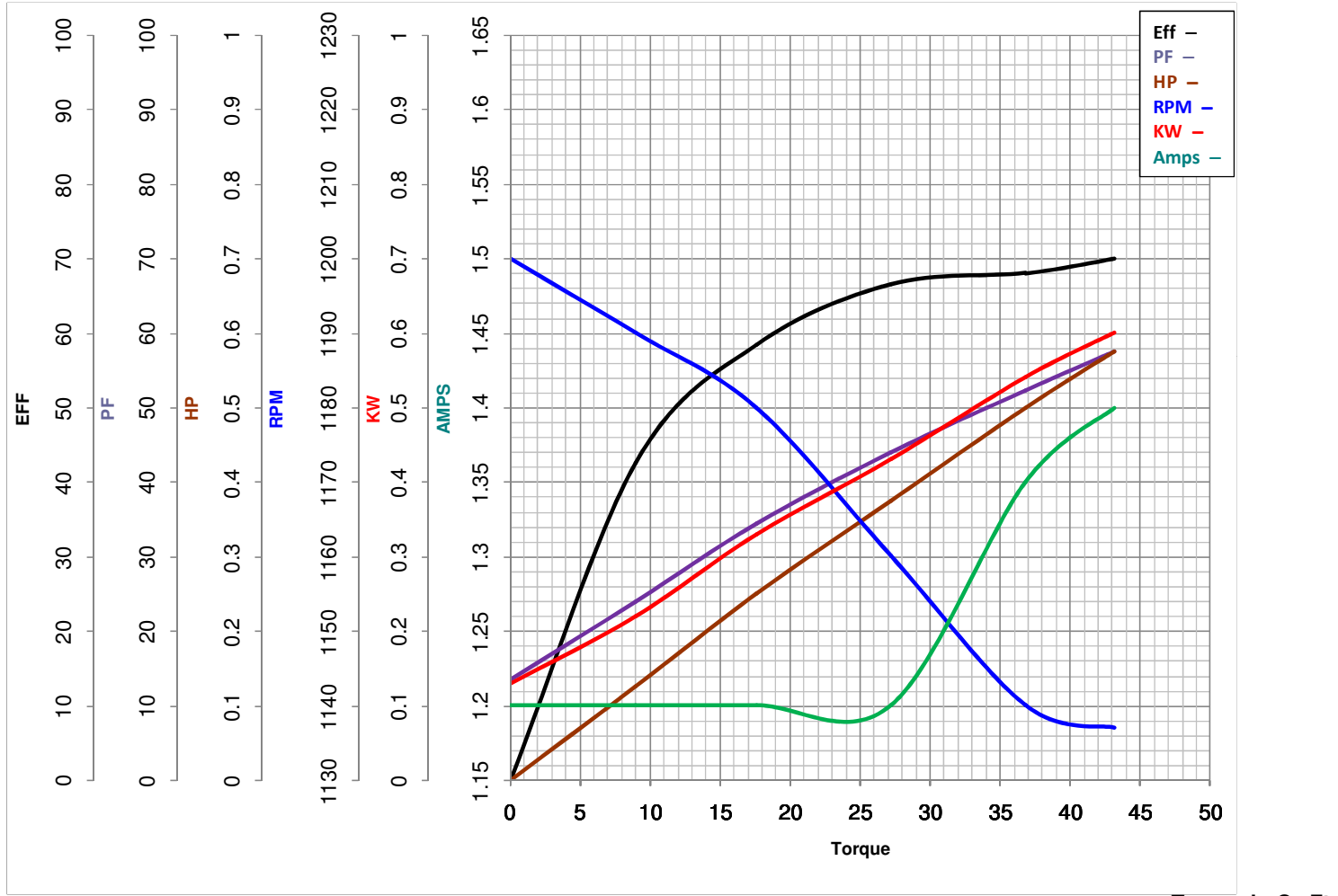
LEESON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No LM24105

Curve at 460 Volts HP 0.5&0.5 PHASE 3
60 HZ
0.5 HP VOLTS 230/460&190/380

Catalog No LM24105A

HZ 60&50 RPM 1140&950



FL TORQUE	<u>36.8</u>	Oz.Ft	FL AMPS	<u>2.7/1.35</u>	
BD TORQUE	<u>144.0</u>	Oz.Ft	PU TORQUE	<u>104.0</u>	Oz.Ft
LR TORQUE	<u>115.2</u>	Oz.Ft	LR AMPS	<u>6.2</u>	
WINDING	ZT606-3		Date	5/22/2018	

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 : LM24105

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

Catalog No : LM24105

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

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