

PRODUCT INFORMATION PACKET



Model No: LM24789
Catalog No: LM24789
Agricultural Motor, 0.33 HP, 1 Ph, 60 Hz, 115/230 V, 1800 RPM, 56 Frame, TEFC

Operational at 115/208-230 V @60HZ



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E





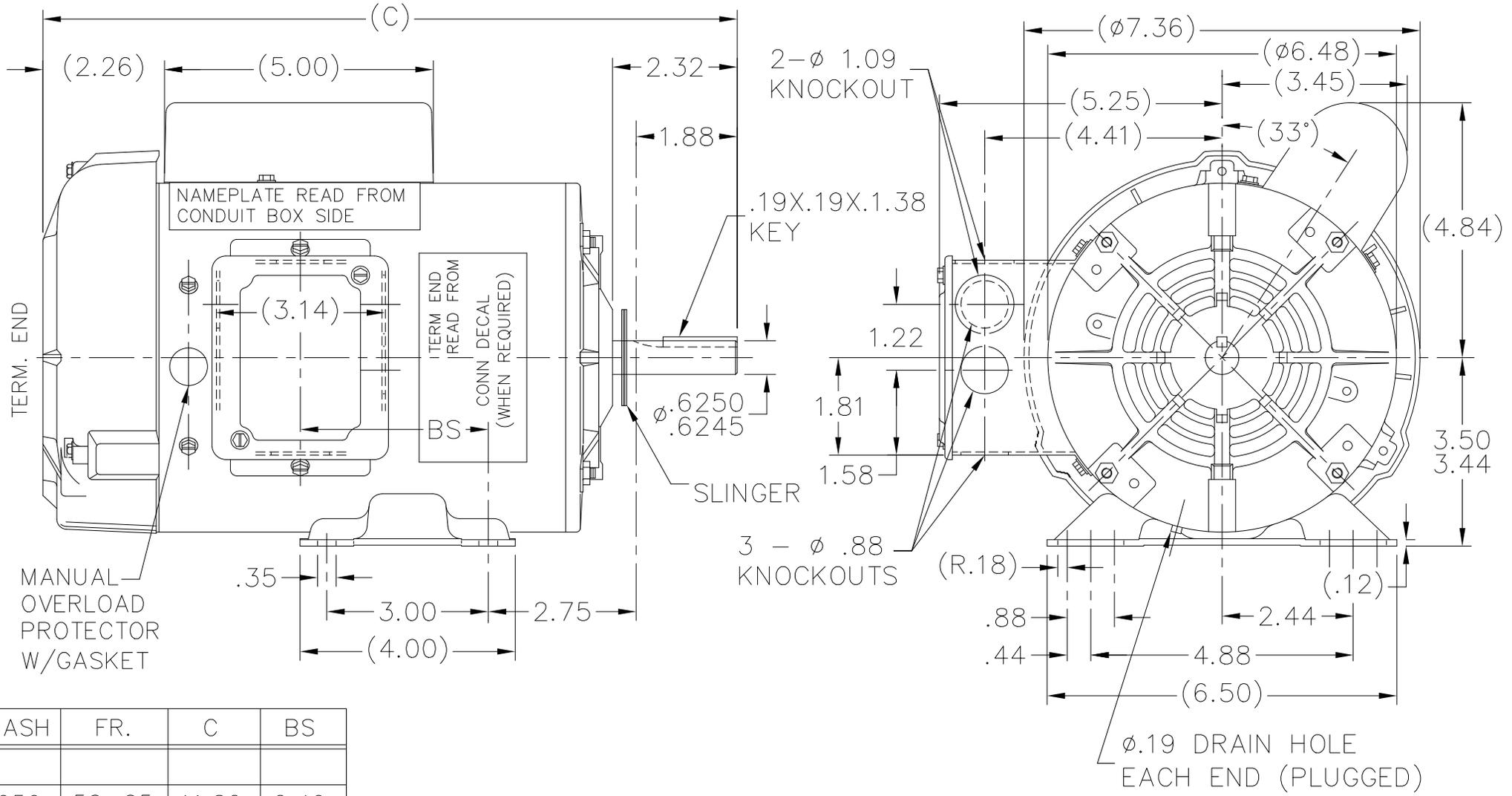
Nameplate Specifications

Phase	1	Output HP	0.33 Hp
Output KW	0.25 kW	Voltage	115/230 V
Speed	1725 rpm	Service Factor	1.15
Frame	56	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Manual	Efficiency	55 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	6.6/3.3 A	Power Factor	60
Duty	Continuous	Insulation Class	B
Design Code	N	KVA Code	N
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Selective Counterclockwise
Resistance Main	0 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	100137-656	Connection Drawing	102005-52

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/29/2023



DASH	FR.	C	BS
656	56-65	11.82	2.40
706	56-70	12.32	2.90
756	56-75	12.82	3.40

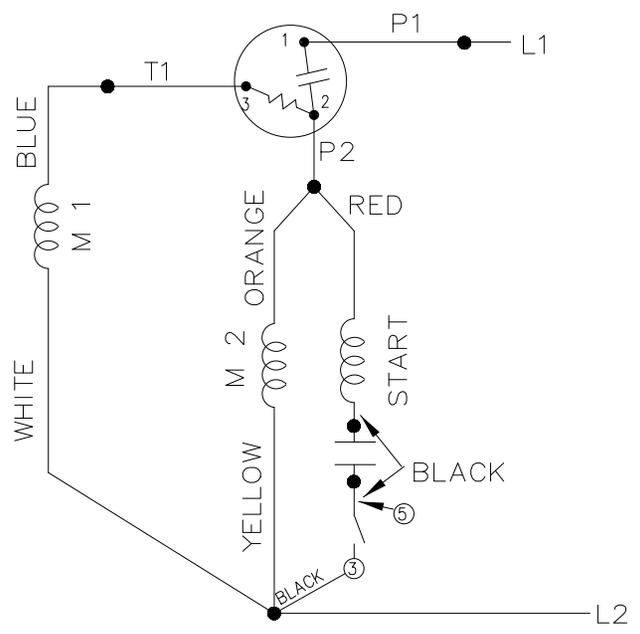
DRAWING REVISION 5	REVISION BY SN	REV DATE/ 01/21/2022
REQUEST NUMBER NMR-0212466	APPROVED BY SN	DATE 01/21/2022
REQUEST NUMBER DESCRIPTION NEW TEMPLET CHANGED		
<p>COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</p>		

TOLERANCES (EXCEPT AS NOTED):			ANGLE
DEC.	INCH	mm	$\pm 0.5^\circ$
.X	± 0.1	[± 3]	
.XX	± 0.01	[± 0.3]	
.XXX	± 0.005	[± 0.13]	
.XXXX	± 0.0005	[± 0.013]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45			
CORNER FILLETS: R.02 [.5]			
MACHINED SURFACES:			125 $\sqrt{\text{mm}}$ 3.2 $\sqrt{\text{mm}}$
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY			

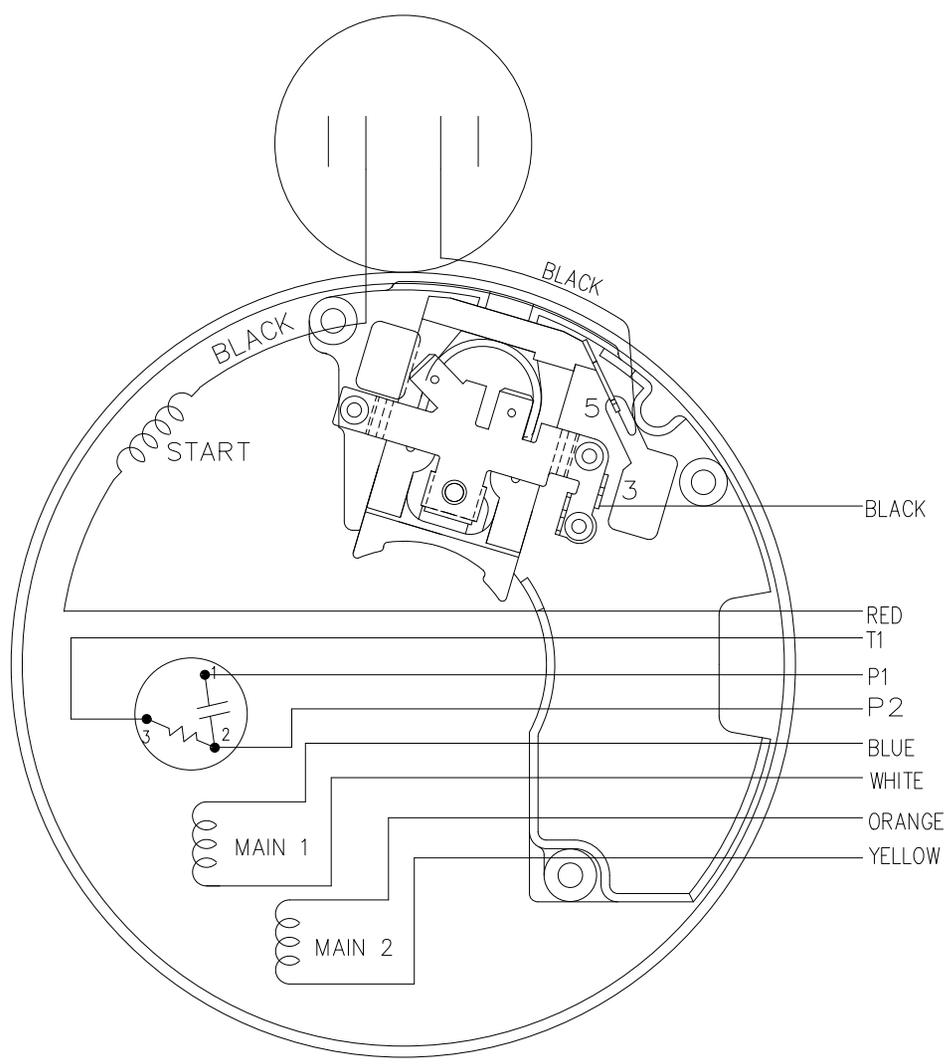
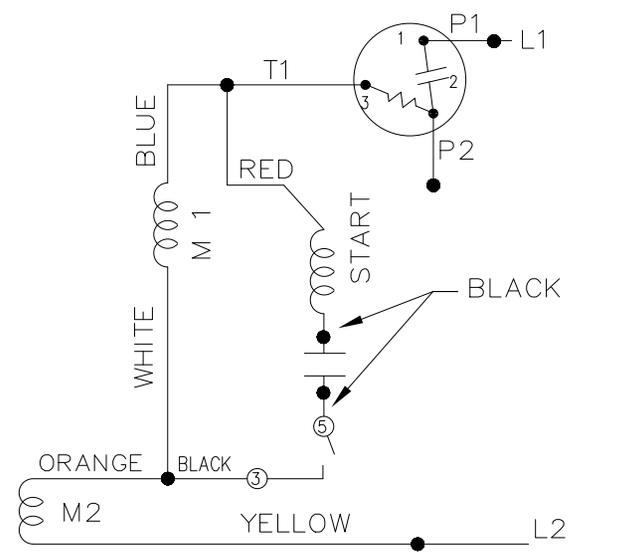
DRAWN BY ML	DATE 01-11-1992
APPROVED BY GK	DATE 01-11-1992
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Rexnord		Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 56 FRAME - BB - TEFC		PROCESS/FINISH	
SIZE 5	DRAWING NUMBER 3 of 6	100137	SHEET 1 OF 1

LOW VOLTAGE - CCW

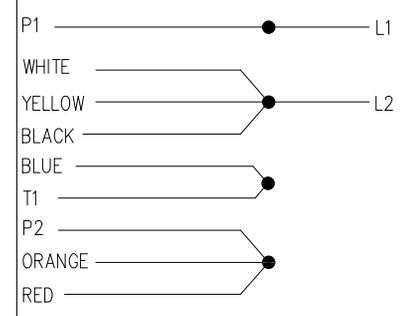


HIGH VOLTAGE - CCW

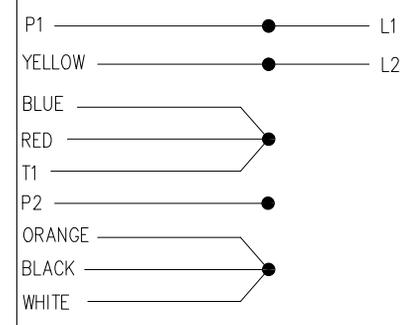


DUAL VOLTAGE
CAPACITOR START
OVERLOAD
SELECT ROTATION

LOW VOLT. CCW ROT.



HIGH VOLT. CCW ROT.



FOR CW ROTATION
EITHER VOLTAGE
INTERCHANGE RED
WITH BLACK

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		REGAL™ Regal Beloit America, Inc.	DRAWN BRH 02-29-1996				
				DEC.	INCHES						
				.X	±.1		CHK ML 03-06-1996				
7	UPDATED LOGO NMR-0212341	KB 01/12/2022	PVR	.XX	±.02	TITLE CONNECTION DIAGRAM	APPD GK 03-06-1996				
6	REISSUE	BRH 03-13-1996		.XXX	±.005		SCALE 5=8				
5	REDRAWN ON CADD	BRH 03-06-1996		.XXXX	±.0005	MAT'L.	REF				
				ANG	±7'30"	FINISH	FMF				
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 THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT						RFP	CAD FILE 102005-52	SIZE A	DRAWING NO. 102005-52	PAGE OF	REV. 7
						DIST WP					



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: 102005-52-LN

CATALOG: LM24789

OUTLINE: A-100137LN-656

WINDING #: ZC406 3

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/3	0.25	1800	1725	56	TEFC	N	N

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
1	60	115/208-230	6.6/3.1-3.3	ACROSS THE LINE	CONTINUOUS	B3	1.15	40

FULL LOAD EFF:	55	3/4 LOAD EFF:	50.5	1/2 LOAD EFF:	43.2	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	60	3/4 LOAD PF:	50	1/2 LOAD PF:	42.7	50.5		CAP START IND RUN	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
16 OZ-FT	32.4 / 16.2	55.7 OZ-FT 348 %	44.6 OZ-FT 279 %	45

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 LB-FT^2	0 LB-FT^2	10 SEC.	0	24 LBS.

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

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

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

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	MANUAL	NONE	NONE	NONE	FALSE	NONE VOLTS

*
N
O
T
E
S
*

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 LM24789

Curve at 230
60
0.333

Volts
 HZ
 HP

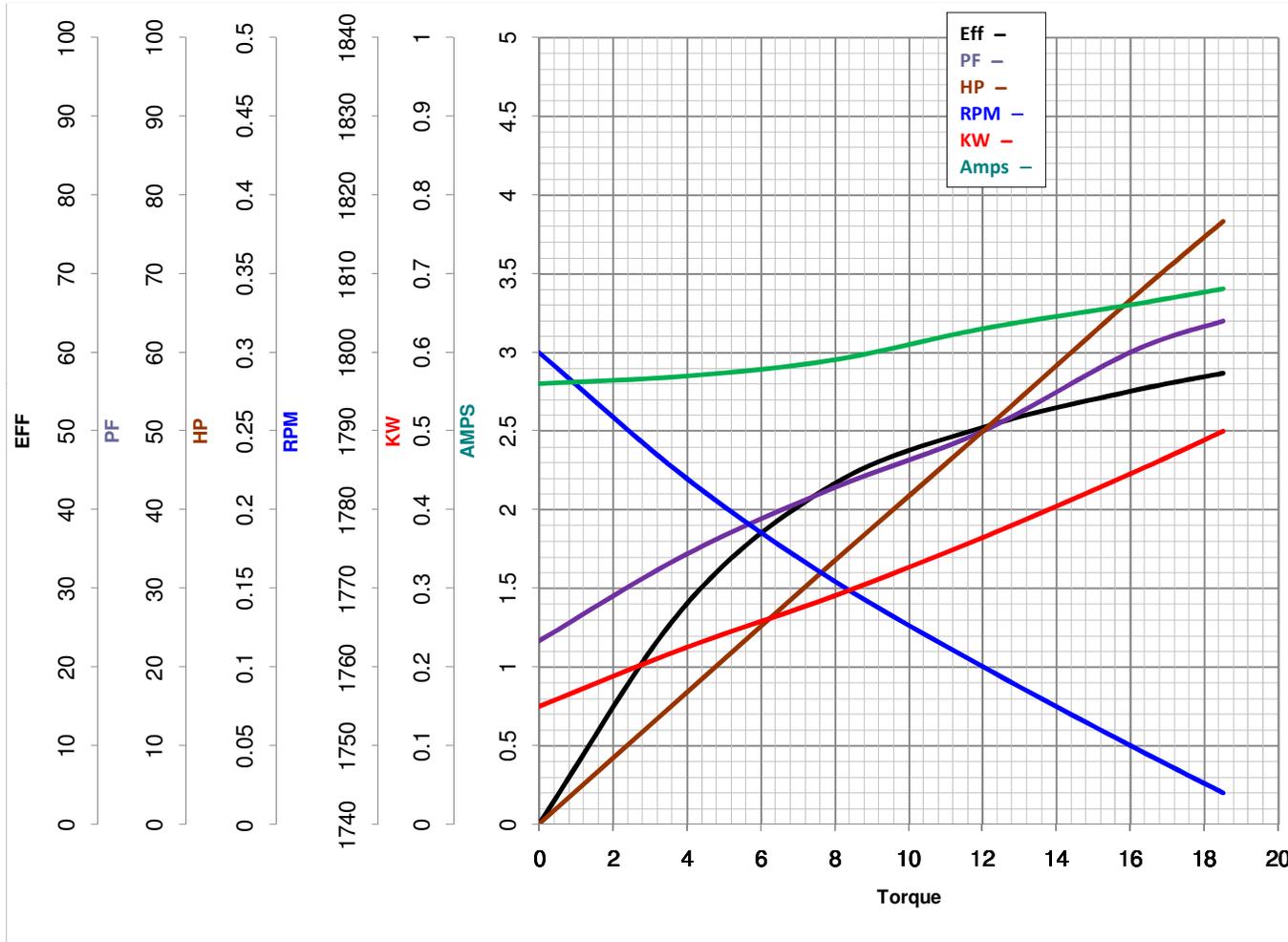
HP 0.34
 VOLTS 115/208-230

PHASE 1

Catalog No LM24789E

HZ 60

RPM 1725



Torque in Oz.Ft

FL TORQUE 16 Oz.Ft
 BD TORQUE 44.6 Oz.Ft
 LR TORQUE 55.7 Oz.Ft

FL AMPS 6.6/3.1-3.3
 PU TORQUE 39.9 Oz.Ft
 LR AMPS 16.2

WINDING ZC406-3

Date 3/22/2018