

# PRODUCT INFORMATION PACKET



Model No: 140638.00

Catalog No: 140638.00

Brake Motor, 10 & 7.5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 215TC Frame, DP



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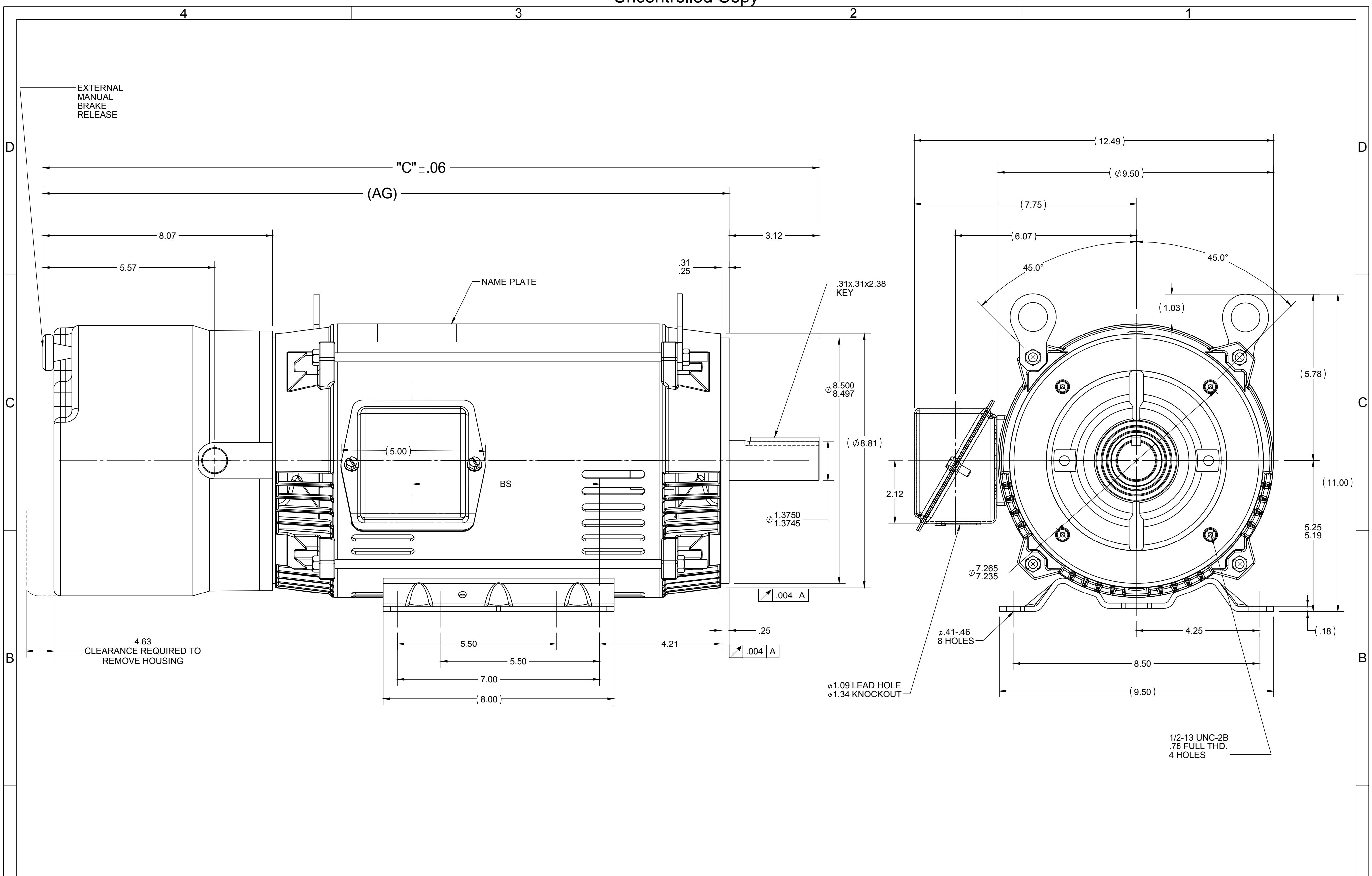


### Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	1765 & 1465 rpm	Service Factor	1.15 & 1.15
Frame	215TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	26.2/13.1 & 24.4/12.2 A	Power Factor	77.8
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6309
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.022 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	26.89 in
Frame Length	11.15 in	Shaft Diameter	1.375 in
Shaft Extension	3.37 in	Assembly/Box Mounting	F1 Only
Outline Drawing	038055-1115	Connection Drawing	005010.15



NOTES:

1. NAMEPLATE TO BE READ CONDUIT BOX SIDE OF MOTOR.
2. CONDUIT BOX CAN BE MOUNTED IN 90 STEPS.
3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180. (EXCEPT AS NOTED)
4. GASKET THROUGH OUT
5. MAXIMUM FACE RUNOUT TO BE .004 T.I.R.
6. MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.
7. PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.
8. ALIGN BASE TO C-FACE MOUNTING HOLES WITHIN ±1/16

DASH	FRAME	C	AG	BS	MOUNTING
965	213T	25.01	20.57	5.96	
1115	213/15T	26.89	23.77	6.41	
1240	213/15T	27.76	26.43	6.61	F1 ONLY

DRAWING REVISION B		REVISION BY SS	DATE 12/17/15	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY KIR		REGAL™ Regal Beloit America, Inc.	
ECO ECO-0090688	APPROVED BY SS	DATE 12/17/15		DEC.	INCH	mm	ANGLE	DATE 12/17/15	DESCRIPTION OUTLINE
ECO DESCRIPTION DRAWING UPDATED.				.X	±0.1	[±2.5]	±0.5°	APPROVED BY SS	'C' FACE 210T FR. - BB - TS - DR.PR.
<small>COPYRIGHT 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.</small>				.XX	±0.01	[±0.25]		DATE 12/17/15	MATERIAL
				.XXX	±0.005	[±0.127]		REFERENCE	PROCESS/FINISH
				.XXXX	+0.0005	[±0.0127]		THIRD ANGLE PROJECTION	SIZE C
				REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 125/ INCH √ mm 3.2/ mm SHOWN IN [BRACKETS]				DRAWING NUMBER 038055	SHEET 1 OF 1

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

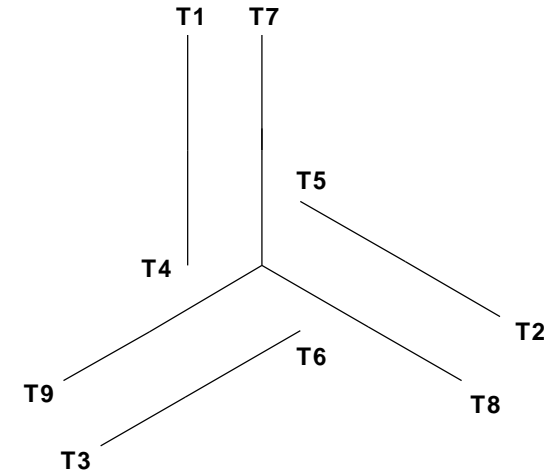


**CAUTION:**  
LEAD WIRE INSULATION TO EXTEND  
MINIMUM OF 1/4" INTO CONNECTOR  
INSULATION

SEE TABLE FOR  
 BRAKE CONNECTIONS

REF. DECAL (MOTOR) - 004014  
 REF. DECAL (BRAKE) - 080034 (STEARNS & DINGS BRAKE)

**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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**TYPE "T" W/O PROTECTOR**

VOLTAGE	BRAKE CONNECTION					
	STEARNS BRAKE			DINGS BRAKE		
	L1	L2	Join	L1	L2	Join
HIGH	1(RED)	2(RED)	3(BLACK) 4(BLACK)	2(BLACK)	4(YELLOW)	1(YELLOW) 3(BLACK)
LOW	1(RED) 3(BLACK)	2(RED) 4(BLACK)	-----	2(BLACK) 3(BLACK)	1(YELLOW) 4(YELLOW)	-----

				TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN JJK 09/17/96	
				DEC	INCHES		CHK	
				.X	±.1	APPR		
				.XX	±.01	SCALE 1:1		
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11	.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM STANDARD 3 PHASE - DUAL VOLTAGE		REF 005010-01	
01	ADDED DINGS AND BRAKE TABLE (PER CN114156)	TMZ 11/12/96	.XXXX	±.0005	MAT'L W/STEARNS OR DINGS DUAL VOLTAGE BRAKE CONN.		FMF	
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH LEESON STOCK		PAGE OF
THIRD ANGLE PROJECTION				RFP	PREV	SIZE	DRAWING NO	REV
				NETWORK FILE NAME 00501015		A	005010-15	--



**CERTIFICATION DATA SHEET**

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

**CONN. DIAGRAM:** 005010.15

**CATALOG #:** 140638.00

**OUTLINE:** 038055-1115

**MOUNTING:** F1 ONLY

**WINDING #:** K2154505 2

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	1800	1765&1465	215TC	DP	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	26.2/13.1&24.4/12.2	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40

FULL LOAD EFF:	91.7&91	3/4 LOAD EFF:	92.1	1/2 LOAD EFF:	91.4	GTD. EFF	90.2	ELEC. TYPE	SQ CAGE IND RUN
FULL LOAD PF:	77.8&77	3/4 LOAD PF:	72	1/2 LOAD PF:	60.2				

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.7 LB-FT	161 / 80.5	62.3 LB-FT 210 %	83.3 LB-FT 280 %	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	1 LB-FT^2	74 LB-FT^2	20 SEC.	2	150 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE	RIGID	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	1045 HOT ROLLED (C-204)	ROLLED STEEL
6309	6309						

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

\*  
N  
O  
T  
E  
S

<b>INVERTER TORQUE:</b> NONE
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE
NONE NONE
NONE NONE PPR
<b>BRAKE:</b> NONE NONE
STEARNS P/N 004202.05
87,000 NONE
50 FT-LB 230/460-190/380
V 60/50 Hz



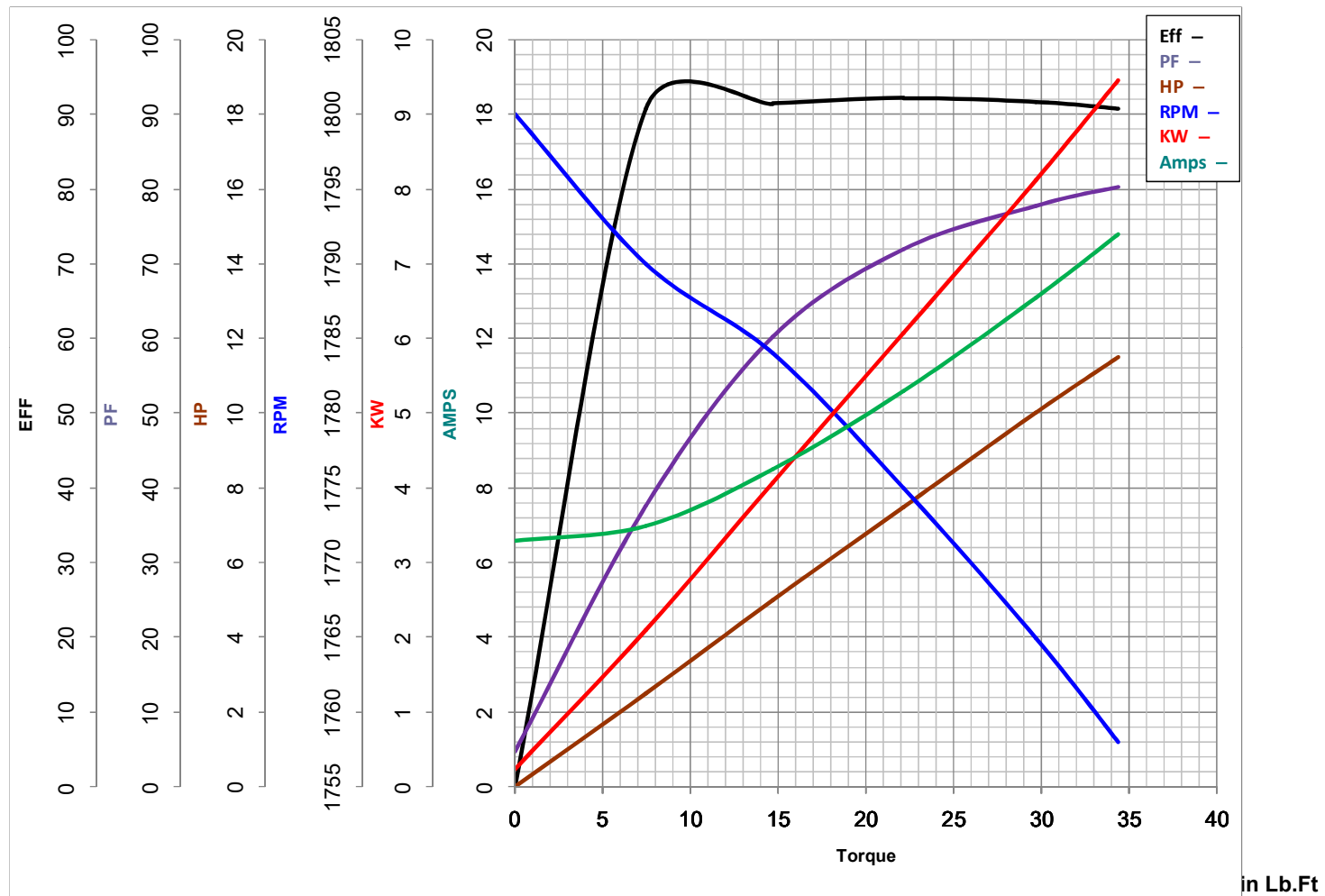
**LEESON ELECTRIC CORPORATION**  
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 140638.00

Curve at 460 Volts      HP 10&7.5      PHASE 3  
60 HZ  
10 HP      VOLTS 230/460&190/380

Catalog No 140638.00

HZ 60&50      RPM 1765&1465



FL TORQUE	<u>29.7</u>	Lb.Ft	FL AMPS	<u>26.2/13.1</u>	
BD TORQUE	<u>83.3</u>	Lb.Ft	PU TORQUE	<u>58.0</u>	Lb.Ft
LR TORQUE	<u>62.3</u>	Lb.Ft	LR AMPS	<u>80.5</u>	
WINDING	K2154505-2		Date	10/30/2018	