

PRODUCT INFORMATION PACKET

Model No: 100029.00

Catalog No: 100029.00

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, S56 Frame, DP



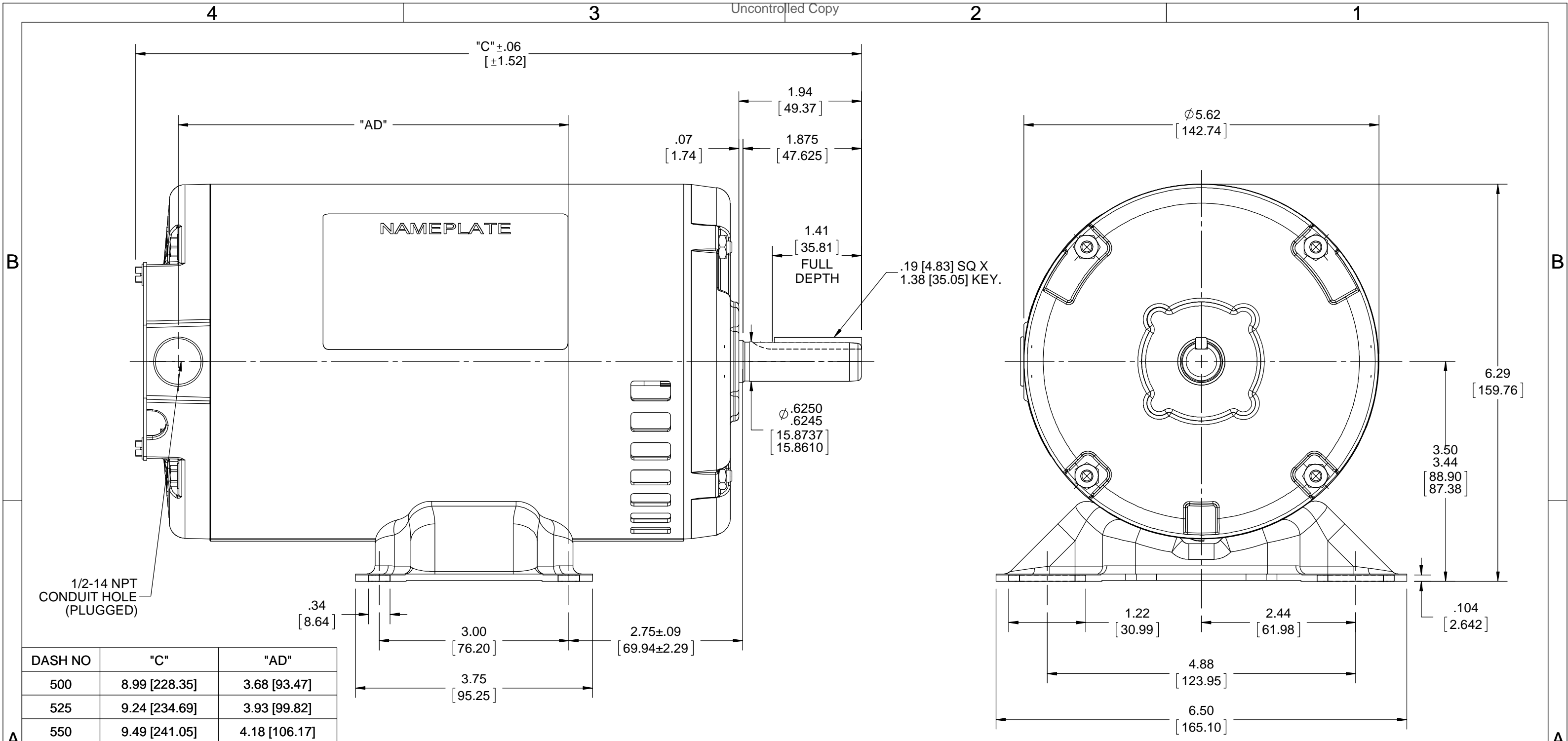
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Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	60 Hz	Voltage	230/460 V
Current	2.0/1.0 A	Speed	1725 rpm
Service Factor	1.25	Phase	3
Efficiency	68 %	Power Factor	66
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	L
Frame	S56	Enclosure	Drip Proof
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	8.905 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	9.99 in
Frame Length	6.00 in	Shaft Diameter	0.625 in
Shaft Extension	1.88 in	Assembly/Box Mounting	F1 Only
Outline Drawing	031620-600	Connection Drawing	005010.01



DASH NO	"C"	"AD"
500	8.99 [228.35]	3.68 [93.47]
525	9.24 [234.69]	3.93 [99.82]
550	9.49 [241.05]	4.18 [106.17]
575	9.74 [247.39]	4.43 [112.52]
600	9.99 [253.75]	4.68 [118.87]
625	10.24 [260.09]	4.93 [125.22]
650	10.49 [266.45]	5.18 [131.57]
675	10.74 [272.79]	5.43 [137.92]
700	10.99 [279.15]	5.68 [144.27]
725	11.24 [285.49]	5.93 [150.97]
750	11.49 [291.85]	6.18 [156.97]
775	11.74 [298.19]	6.43 [163.32]
800	11.99 [304.55]	6.68 [169.67]

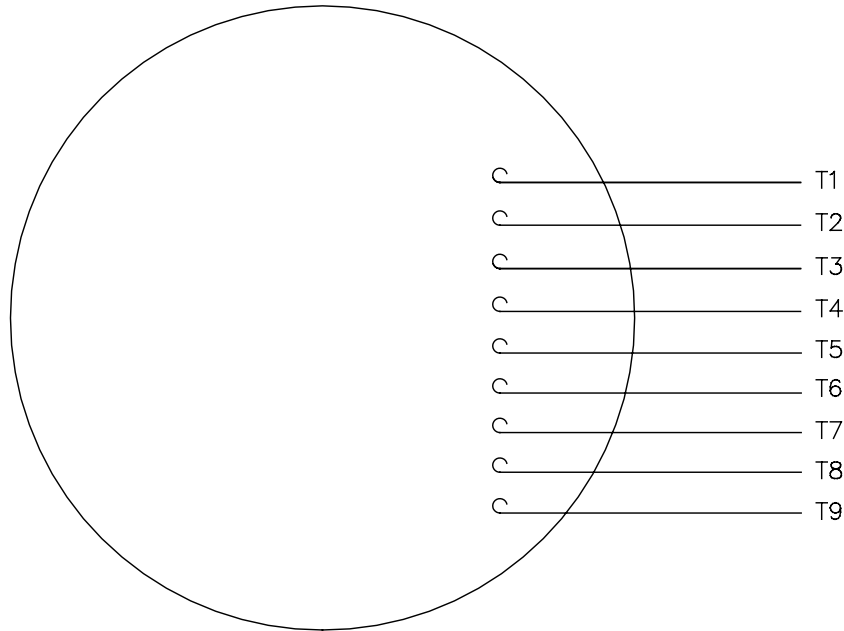
DRAWING REVISION E	REVISION BY A SUPPANAVAR	DATE 09/18/2018
ECO ECO-0154532	APPROVED BY JD	DATE 10/11/2018
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 200 INCH/mm 5.1			
mm SHOWN IN [BRACKETS]			

DRAWN BY PG	REGAL™ Regal Beloit America, Inc.	
DATE 5/24/01	DESCRIPTION OUTLINE RIGID MOUNT-DRIP PROOF 3 PHASE	
APPROVED BY	MATERIAL	PROCESS/FINISH
DATE	SIZE B	DRAWING NUMBER 031620
REFERENCE 031067	SHEET 1 OF 1	
THIRD ANGLE PROJECTION		

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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

TOLERANCES
UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°



Regal Beloit America, Inc.

DRAWN RDW 04/12/02

CHK

APPD

SCALE 1=1

REF FIG.2-51

A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005	MAT'L.	DECAL - 004014	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH		PREV

TITLE
EXTERNAL WIRING DIAGRAM
3 PHASE W/O PROTECTOR

FINISH

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RFP 04/12/02
DIST BRF-NLV

CAD FILE 00501001

SIZE	DRAWING NO.	REV.
A	005010-01	A



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

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01 **CATALOG #:**100029.00
OUTLINE: 031620-600 **MOUNTING:** F1 ONLY
WINDING #: TE48415 DR 3 C

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1/2	0.37	1800	1725	S56	DP	L	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	2/1	ACROSS THE LINE	CONTINUOUS	B3	1.25	40

FULL LOAD EFF:	68	3/4 LOAD EFF:	63.8	1/2 LOAD EFF:	55.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	66	3/4 LOAD PF:	56.1	1/2 LOAD PF:	46	66	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B,D. TORQUE	F.L. RISE°C
24 OZ-FT	11.9 / 6	95.9 OZ-FT 400 %	100 OZ-FT 417 %	-

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	0.045 LB-FT^2	0 LB-FT^2	10 SEC.	0	20 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	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	MULTEMP SRL	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	NOT	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

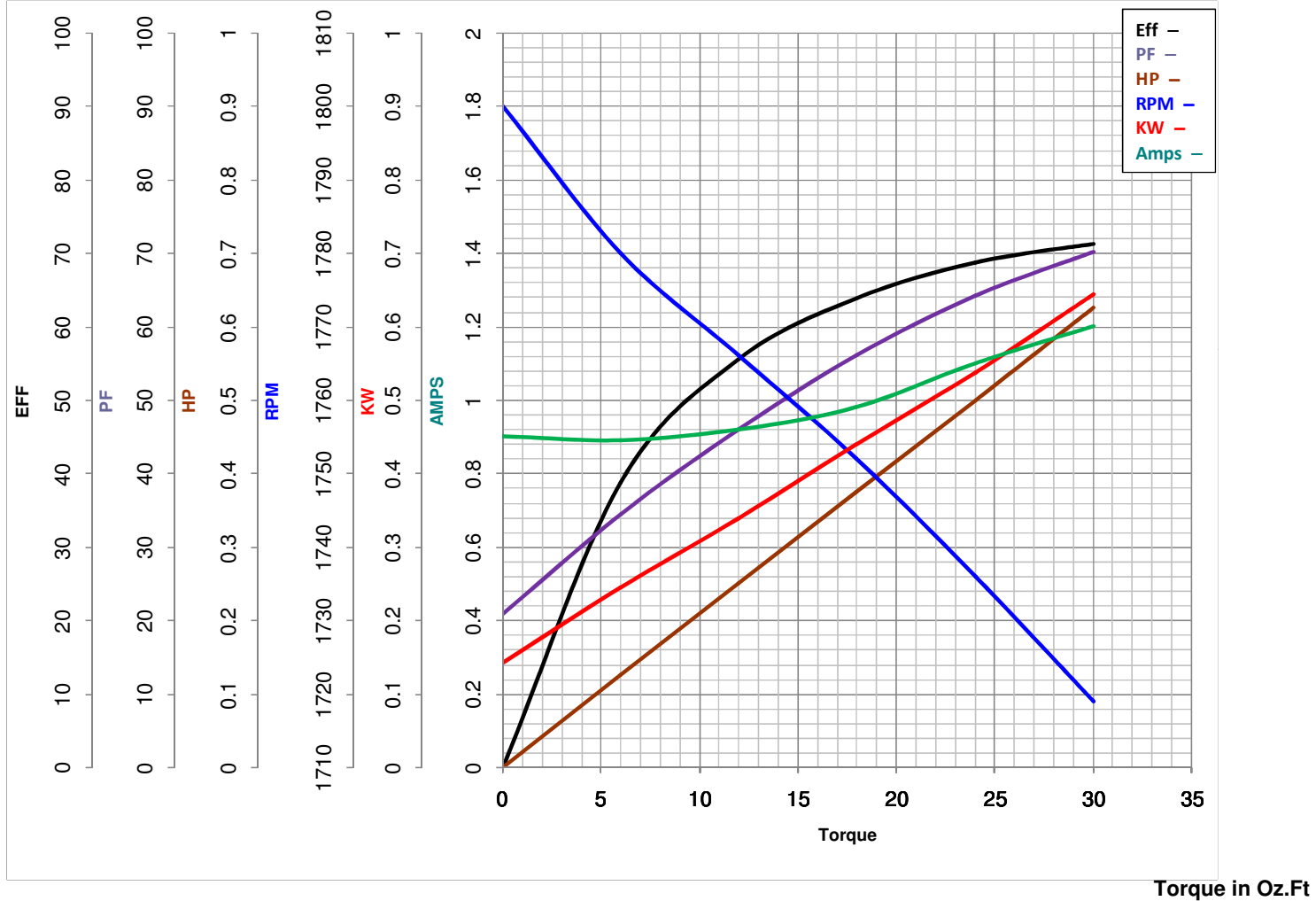


LEESON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 100029.00

Catalog No 100029.00

Curve at 460 Volts HP 0.50 PHASE 3
60 HZ
0.5 HP VOLTS 230/460
HZ 60 RPM 1725



FL TORQUE	<u>24</u> Oz.Ft	FL AMPS	<u>2/1</u>
BD TORQUE	<u>100.0</u> Oz.Ft	PU TORQUE	<u>91.3</u> Oz.Ft
LR TORQUE	<u>95.9</u> Oz.Ft	LR AMPS	<u>5.95</u>
WINDING	TE48415-3	Date	5/22/2018