

PRODUCT INFORMATION PACKET



Model No: B654
Catalog No: B654

Pool Pump Motor, 1.0 HP, 1 Ph, 60 Hz, 208-230/115 V, 3600 RPM, X56J Frame, DP



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Nameplate Specifications

Output HP	1.0 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	208-230/115 V
Current	SF 6.4-5.9/11.8 A	Speed	3450 rpm
Service Factor	1.4	Phase	1
Duty	Continuous	Insulation Class	B
Frame	X56J	Enclosure	Drip Proof
Thermal Protection	Thermally Protected	Ambient Temperature	50 °C
UL	Recognized	CSA	Y
Number of Speeds	1		

Technical Specifications

Electrical Type	Permanent Split Capacitor, Single Or Dual Voltage	Poles	2
Rotation	Counterclockwise Pump End	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	7/16 Threaded	Overall Length	13.19 in
Frame Length	7.50 in	Shaft Diameter	0.625 in
Shaft Extension	2.56 in		
Outline Drawing	B654-S01	Connection Drawing	17536715.PCX

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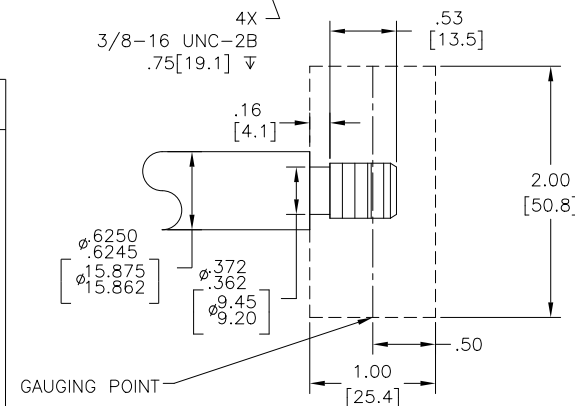
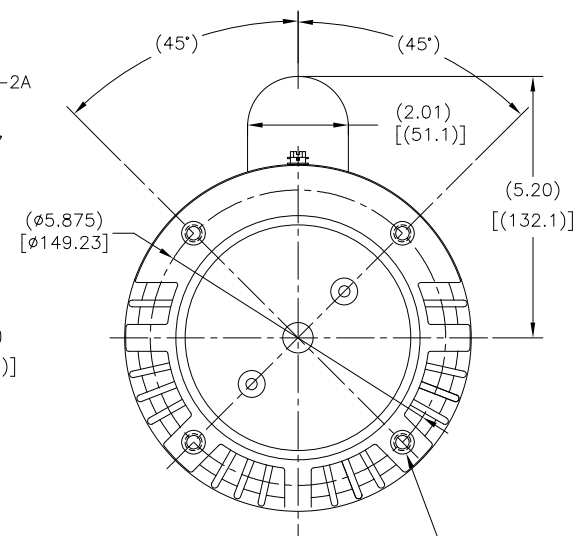
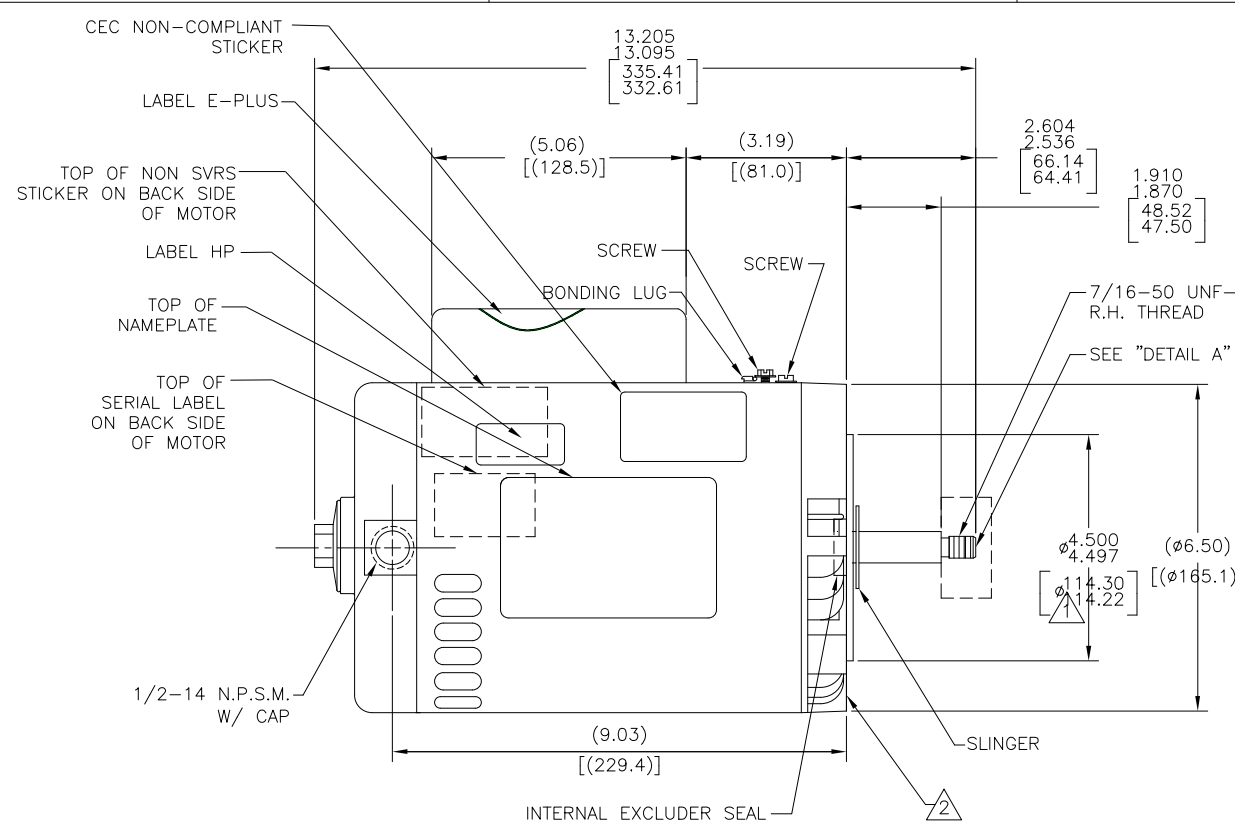
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D

C

B

A



DETAIL A
SCALE = 1.5:1

NAMEPLATE DATA	EXTERNAL CONNECTION DIAGRAM	NOTES
MODEL: 165120 CUST PN: B654 HP: 1.0 SF: 1.40 ROT: CCWPE RPM: 3450 TYPE: CX CODE: J FORM: FRAME: X 56 J VOLTS: 208-230/115 AMPS: MAX AMPS: 6.4-5.9/11.8 PH: 1 HZ: 60 INS: B AMB: 50°C DUTY: CONT ENCLOSURE: ODP THERMALLY PROTECTED	LOW VOLTAGE HIGH VOLTAGE WHITE — B WHITE — L1 LINE WHITE — L2 LINE WHITE — A BROWN — B BROWN — L1 LINE BROWN — L2 LINE BROWN — A NON-REVERSIBLE	1. PILOT DIAMETER IS CONCENTRIC WITH SHAFT & WITHIN .004[.10] T.I.R. 2. FACE OF MOUNTING FLANGE IS PERPENDICULAR TO SHAFT & WITHIN .004[.10] T.I.R. 3. SHAFT RUNOUT NOT TO EXCEED .002[.05] T.I.R 4. END PLAY NOT TO EXCEED .010[.25] MEASURED WITH NO THRUST

PERFORMANCE CURVE		APPROVED SAMPLE	
16380611			
UL COMPONENT		CSA	
FILE#	CCN#	FILE#	GUIDE#
E14663	XEWR2	LR4642	4211-01
CUSTOMER	DISTRIBUTION		

DRAWING REVISION	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED	DRAWN BY:	Regal Beloit America, Inc.
F	SHESH	08/25/2021	DEC. INCH mm ANGLE	YL	
ECO	APPROVED BY	08/25/2021	.X ±0.1 [±2.5]	DATE:	11-01-2010
ECO DESCRIPTION	SACHIN		.XX ±0.02 [±0.51]	APPROVED BY:	
SEE ECR			.XXX ±0.005 [±0.127]	TZ	
			XXXX ±0.0005 [±0.0127]	DATE:	11-01-2010
			REMOVE BURRS & BREAK SHARP EDGES .003/.015 [0.076/.381] X 45°	REFERENCE	
			CORNER FILLETS R.02 [51]	MATERIAL	PROCESS/FINISH
			MACHINED SURFACES .125 INCH mm 32	SIZE DWG NO	B654
			mm SHOWN IN [BRACKETS]	THIRD ANGLE PROJECTION	SHEET 1

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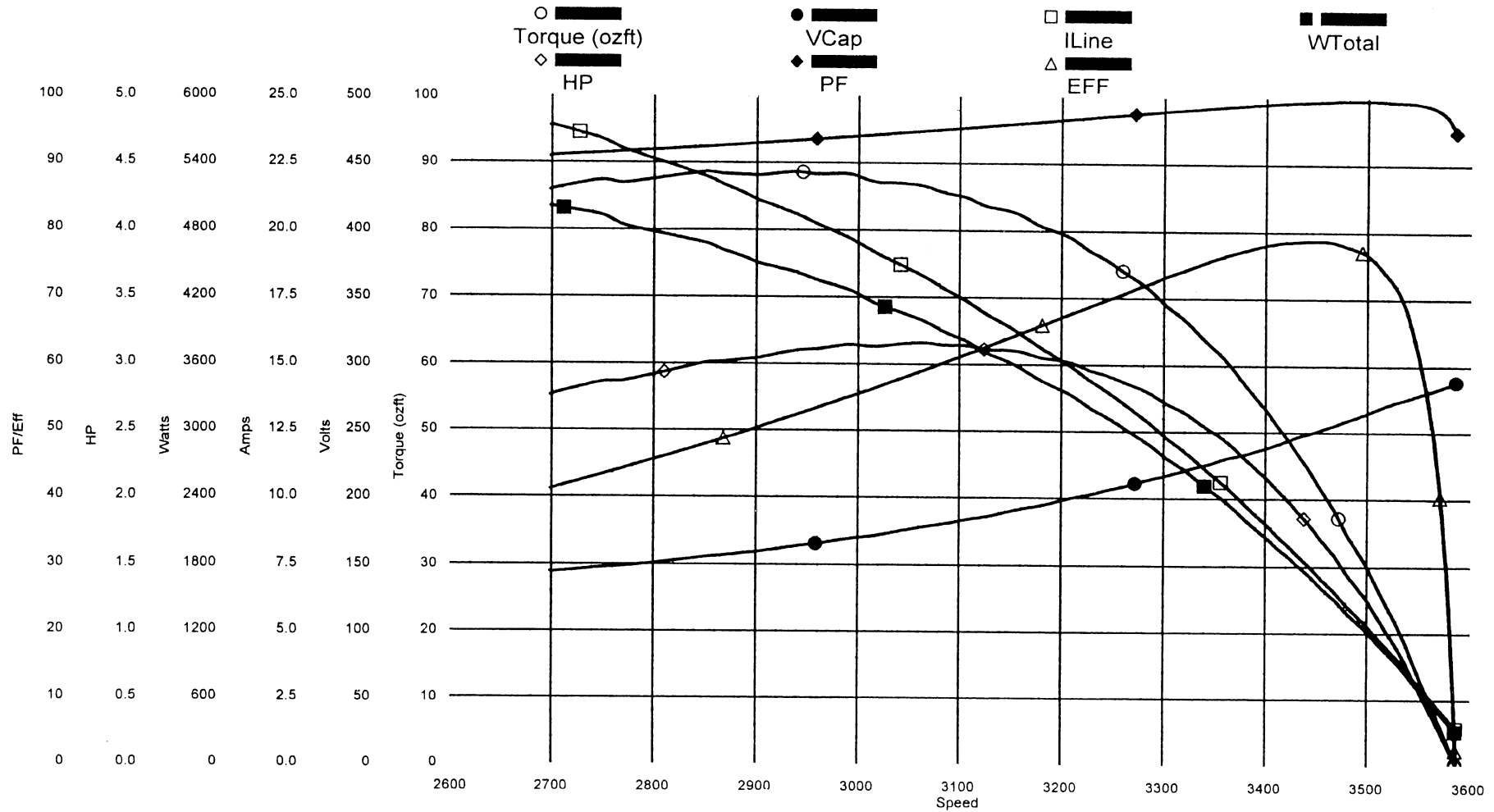
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AO Smith

Performance Down Project: 0442920 (High Speed)

Friday, June 11, 2004 05:03 AM



TRACKING #: 10026199
 SBU: Pump
 ENGINEER: JOE MINOGUE
 TECHNICIAN: DAN
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 1
 MOTOR #: 1
 TYPE:

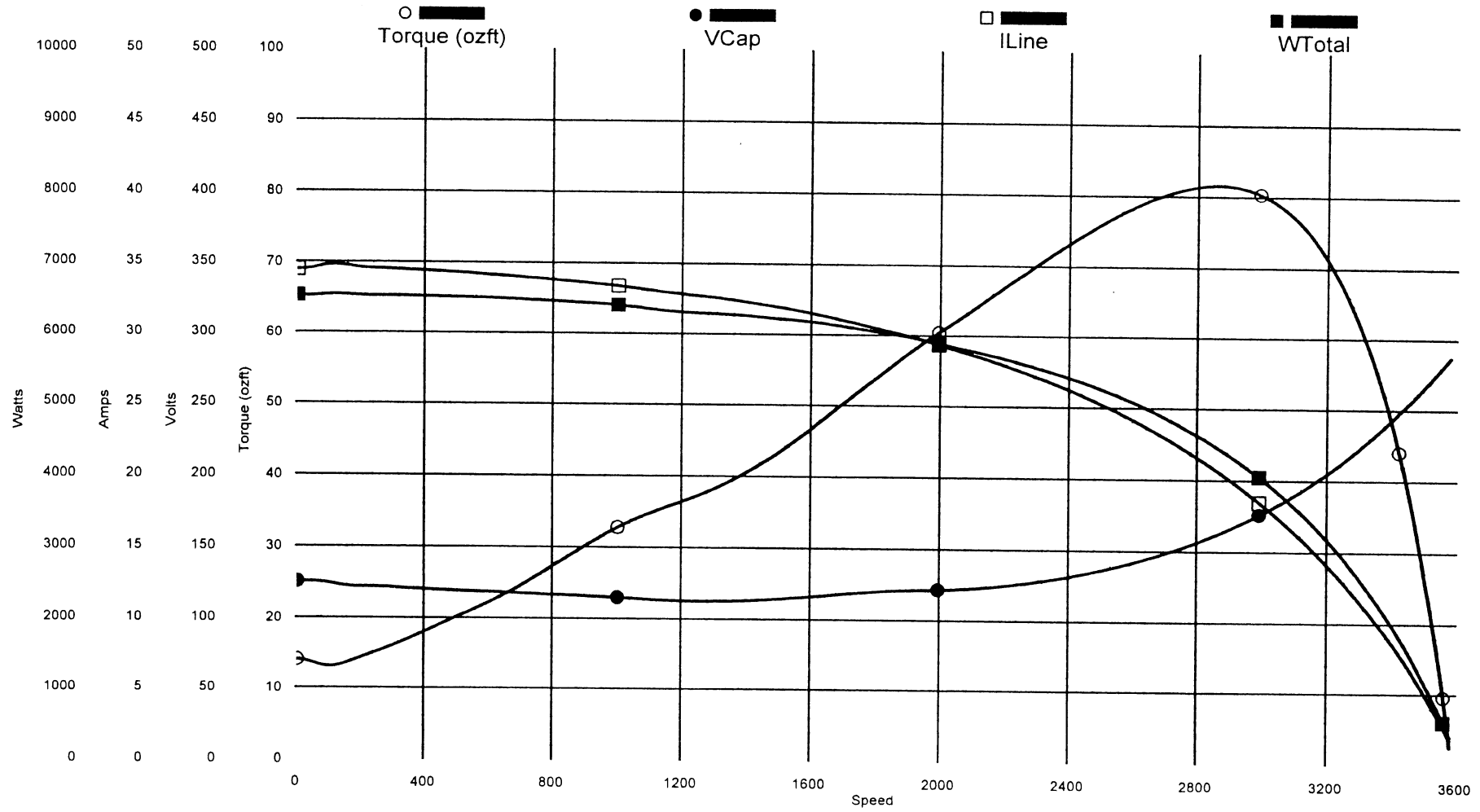
CUSTOMER: HAYWARD
 MODEL: 0442920A
 FRAME: R56Y
 PHASES: 1
 HP: 1.00
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 50.00
 COMMENT3:

DESCRIPTION: OFFSET
 BDT: 88.59
 MT: 88.62
 SF: 69.30
 LRT: 0.00
 LRA: 0.00
 PUT: 0.00
 COMMENT1:
 COMMENT2:
 COMMENT4:

AO Smith

Performance Up Project: 0442920 (High Speed)

Friday, June 11, 2004 05:06 AM



TRACKING #: 10026199
 SBU: Pump
 ENGINEER: JOE MINOGUE
 TECHNICIAN: DAN
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 1
 MOTOR #: 1
 TYPE:

CUSTOMER: HAYWARD
 MODEL: 0442920A
 FRAME: R56Y
 PHASES: 1
 HP: 1.00
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 50.00
 COMMENT3:

DESCRIPTION: 0-SYNC
 BDT: 81.60
 MT: 81.60
 SF: 69.30
 LRT: 13.96
 LRA: 34.47
 PUT: 13.00
 COMMENT1:
 COMMENT2:
 COMMENT4: