

PRODUCT INFORMATION PACKET



Model No: B638

Catalog No: B638

Pool Pump Motor, 3/4 HP, 1 Ph, 60 Hz, 208-230/115 V, 3600 RPM, U56J Frame, DP



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Nameplate Specifications

Phase	1	Output HP	3/4 Hp
Output KW	0.56 kW	Voltage	208-230/115 V
Speed	3450 rpm	Service Factor	1.5
Frame	U56J	Enclosure	Drip Proof
Thermal Protection	Thermally Protected	Ambient Temperature	50 °C
Frequency	60 Hz	Current	SF 5.4-5.0/10.0 A
Duty	Continuous	Insulation Class	B
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	12.65 in
Frame Length	7.00 in	Shaft Diameter	0.625 in
Shaft Extension	2.604 in		
Outline Drawing	B638-S01	Connection Drawing	17536715.PCX

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D

C

B

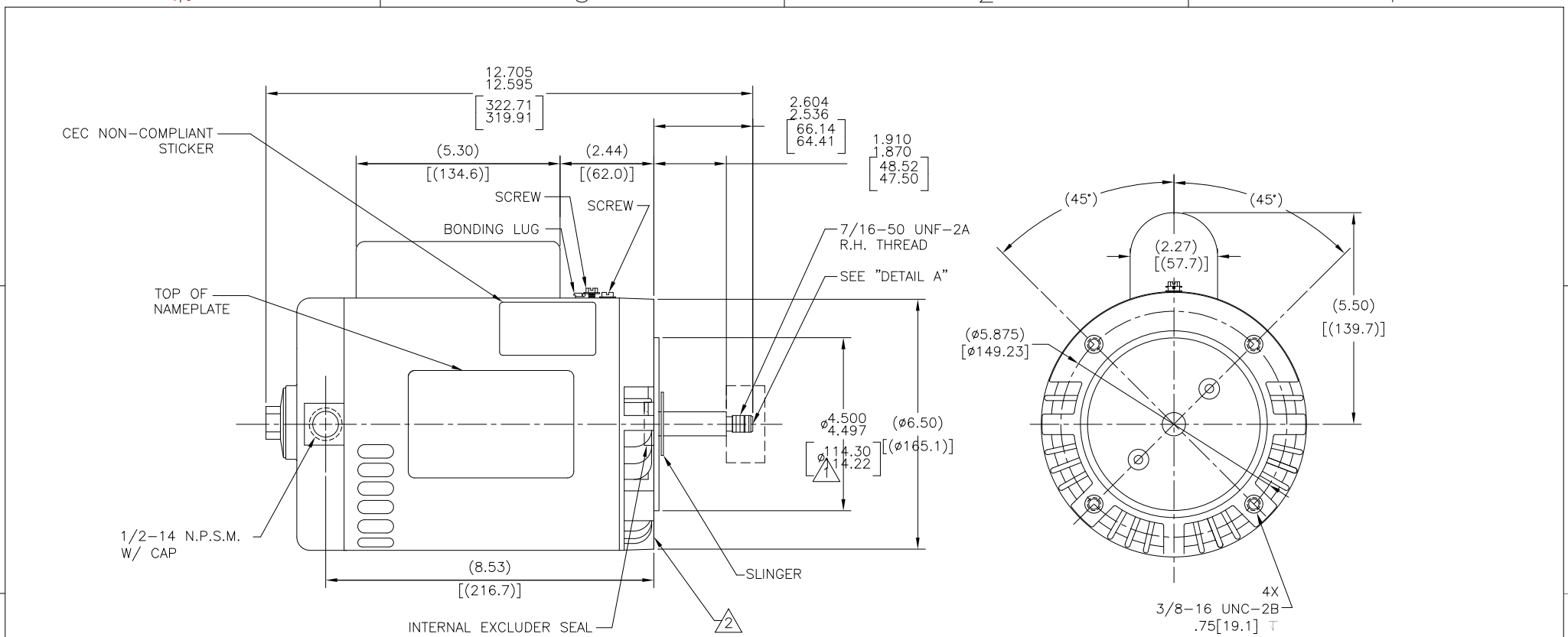
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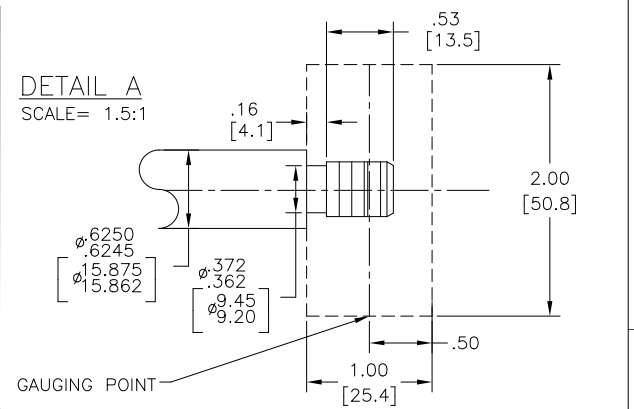
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B

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NAMEPLATE DATA	EXTERNAL CONNECTION DIAGRAM	NOTES
MODEL: 165118 CUST PN: B638 HP: 3/4 SF: 1.50 ROT: CCWPE RPM: 3450 TYPE: CX CODE: L FORM: FRAME: U 56 J VOLTS: 208-230/115 AMPS: SF AMPS: 5.4-5.0/10.0 PH: 1 HZ: 60 INS: B AMB: 50°C DUTY: CONT ENCLOSURE: ODP THERMALLY PROTECTED	LOW VOLTAGE BROWN — B WHITE — L1 WHITE — L2 A HIGH VOLTAGE WHITE — B BROWN — L1 BROWN — L2 A NON-REVERSIBLE	1. PILOT DIAMETER IS CONCENTRIC WITH SHAFT CENTERLINE WITHIN .004[.10] T.I.R. 2. FACE OF MOUNTING FLANGE IS PERPENDICULAR TO SHAFT CENTERLINE 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



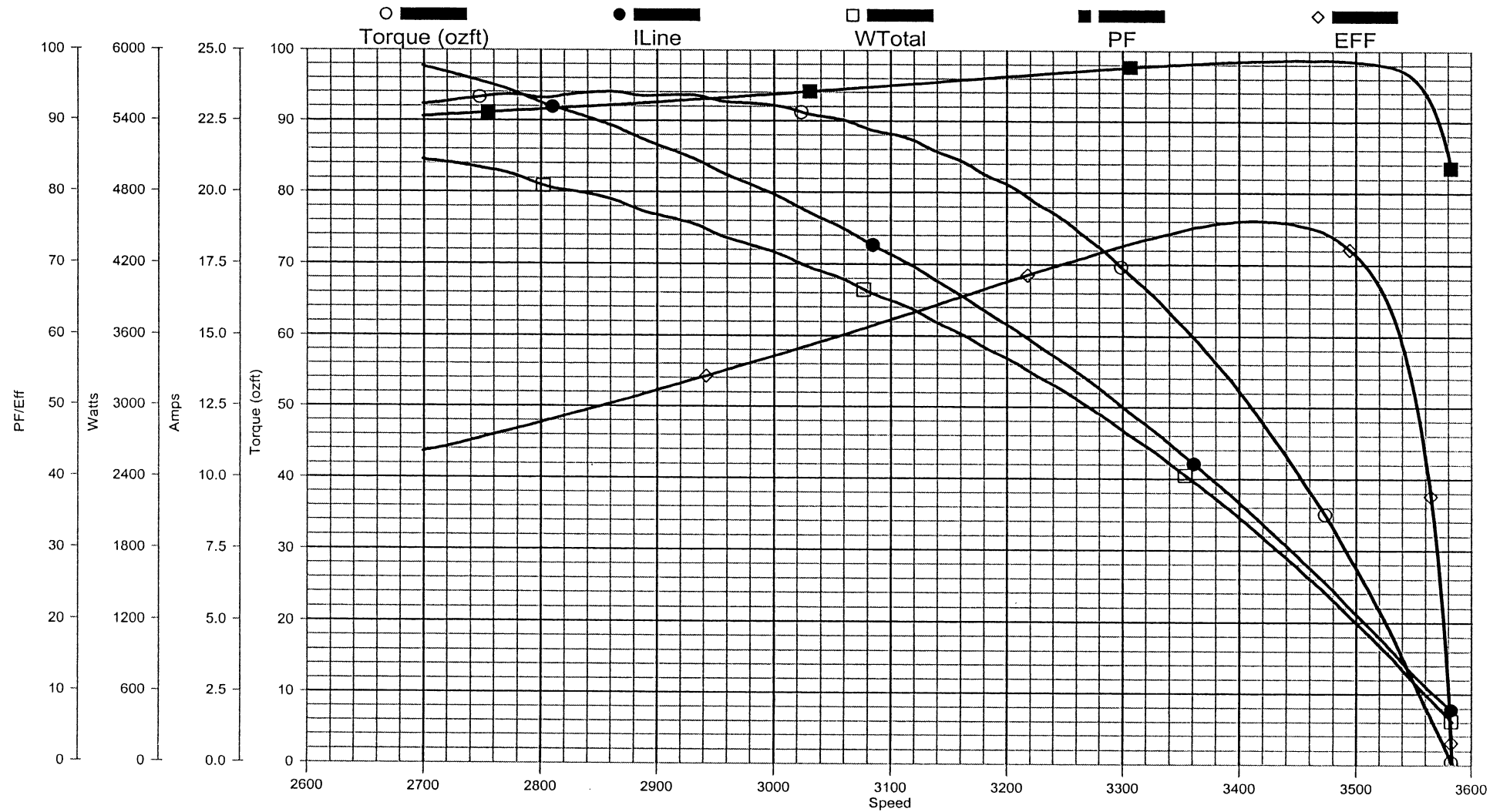
PERFORMANCE CURVE		APPROVED SAMPLE	
16380512		----	
UL COMPONENT		CSA	
FILE#	CCN#	FILE#	GUIDE#
E14663	XEWR2	LR4642	4211-01
CUSTOMER	DISTRIBUTION		

DRAWING REVISION G	REVISION BY S JIMENEZ	DATE 7-18-2024	TOLERANCES UNLESS OTHERWISE SPECIFIED			DRAWN BY: YL	REGAL™ Regal Beloit America, Inc.		
ECO	APPROVED BY S JIMENEZ	DATE 7-18-2024	DEC. INCH mm	ANGLE	DATE:	10-21-2010	DESCRIPTION	MODEL-CFHP-56FR	
ECO-0235728			.X ±0.1 [±2.5]	±0.5°	DATE:	10-21-2010	OUTLINE		
ECO DESCRIPTION SEE ECR			.XX ±0.02 [±0.51]		APPROVED BY:	TZ	MATERIAL	PROCESS/FINISH	
			.XXX ±0.005 [±0.127]		DATE:	10-21-2010	REFERENCE		
COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.			REMOVE BURRS & BREAK SHARP						
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			CORNER FILLETS R.02 [1.51]						
			MACHINED SURFACES .125 INCH 3.2 mm SHOWN IN [BRACKETS]			THIRD ANGLE PROJECTION	SIZE DWG NO	B638	SHEET 1

AO Smith

Performance Project: 0443403 (High Speed)

Monday, July 26, 2004 02:39 AM



TRACKING #: 10027268
 SBU: Pump
 ENGINEER: RAY PHILLIPS/ JAMIE WATKINS
 TECHNICIAN: DAN
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 1
 MOTOR #: 1
 TYPE: CX

CUSTOMER: A. O. SMITH
 MODEL: 0443403A
 FRAME: U56J
 PHASES: 1
 HP: 0.75
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 50.00
 COMMENT3:

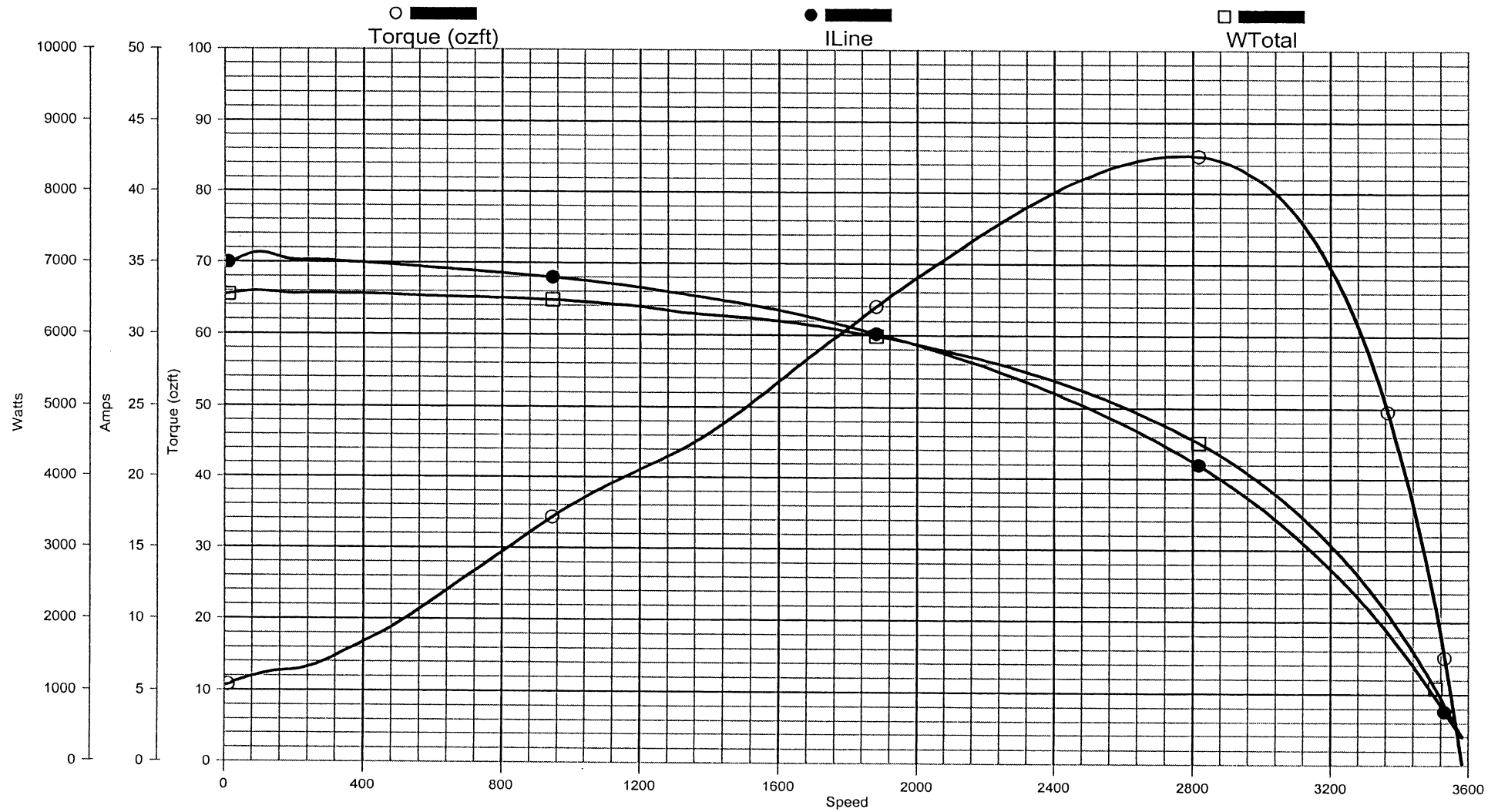
DESCRIPTION: OFFSET
 BDT: 93.61
 MT: 94.02
 SF: 27.30
 LRT: 0.00
 LRA: 0.00
 PUT: 0.00
 COMMENT1:
 COMMENT2:
 COMMENT4:

LOCK AMPS: 35.6A
 LOCK TORQUE: 13.0 oz-ft
 BREAKDOWN TORQUE: 93.6 oz-ft

AO Smith

Performance Project: 0443403 (High Speed)

Monday, July 26, 2004 02:53 AM



TRACKING #: 10027268
 SBU: Pump
 ENGINEER: RAY PHILLIPS/ JAMIE WATKINS
 TECHNICIAN: DAN
 BENCH: 2
 TORQUE CELL: 350 lb-in
 NP RPM: 3450
 # SPEEDS: 1
 MOTOR #: 1
 TYPE: CX

CUSTOMER: A. O. SMITH
 MODEL: 0443403A
 FRAME: U56J
 PHASES: 1
 HP: 0.75
 VOLTS: 230.0
 HERTZ: 60
 START CAP: 0.00
 RUN CAP: 50.00
 COMMENT3:

DESCRIPTION: 0-SYNC
 BDT: 85.34
 MT: 85.34
 SF: 27.30
 LRT: 10.64
 LRA: 34.95
 PUT: 10.64
 COMMENT1:
 COMMENT2:
 COMMENT4: