

PRODUCT INFORMATION PACKET



Model No: ORM4688BF
Catalog No: ORM4688BF

4-in-1® Condenser Fan Motor, 1/3-1/8 HP, 1 Ph, 60 Hz, 460 V, 825 RPM, 1 Speed, 48 Frame, ENCLOSED



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Nameplate Specifications

Output HP	1/3-1/8 Hp	Output KW	0.25 kW
Frequency	60 Hz	Voltage	460 V
Current	1.0 A	Speed	825 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	F
Frame	48	Enclosure	Totally Enclosed
Thermal Protection	Automatic	Ambient Temperature	70 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	1

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	8	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Double Flat
Overall Length	12.62 in	Frame Length	4.62 in
Shaft Diameter	0.500 in	Shaft Extension	6.5 in
Outline Drawing	ORM4688BF-S01	Connection Drawing	614131-242

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GENERAL INFORMATION:

SHAFT RUNOUT: .001[.03] T.I.R. PER INCH LENGTH OF EXTENSION

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

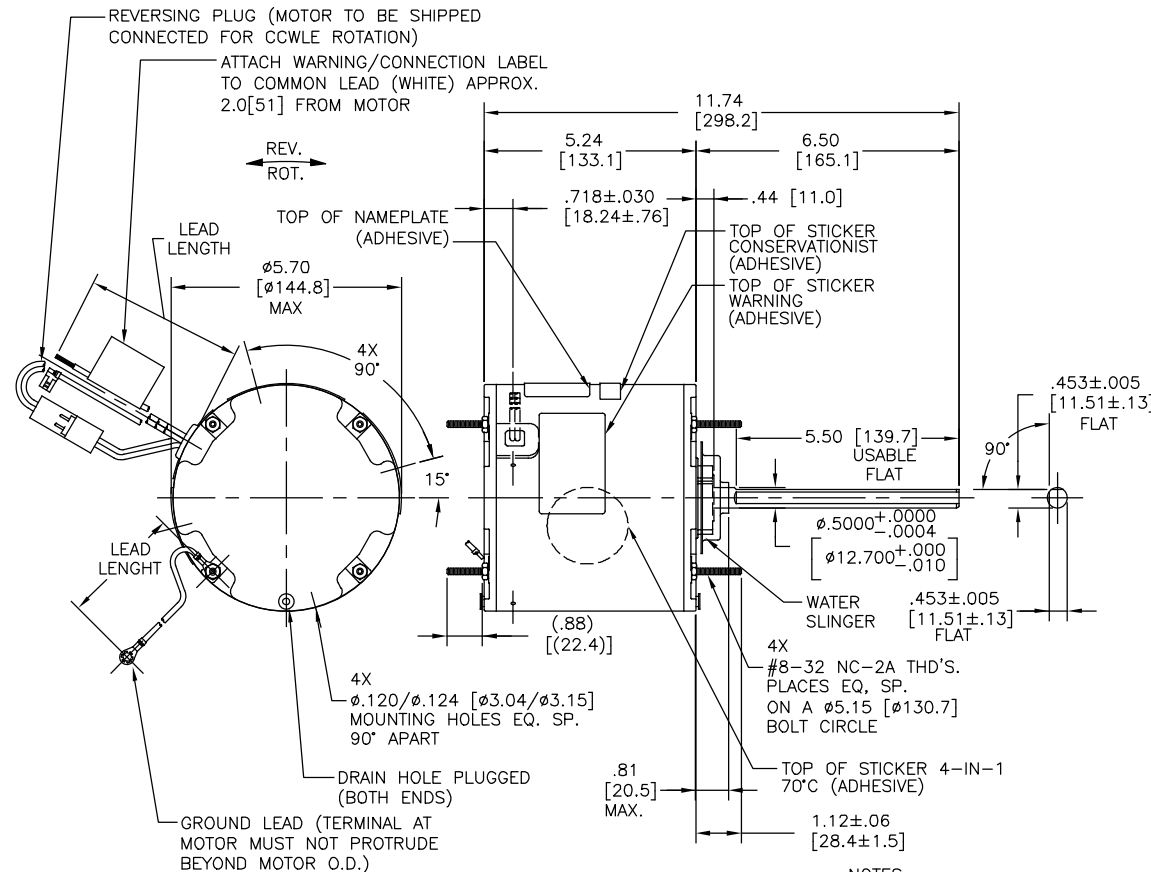
ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 304)

LINE LEADS: NO. 18 GA., .06[1.5] THK. XLP 125°C INSUL.

REVERSING LEADS: NO. 18 GA., .03[.8] THK. XLP 125°C INSUL.

GROUND LEAD: NO. 18 GA., .03[.8] THK. (GREEN) INSUL.



NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48AB98A01 CUST. P/N: ORM4688BF HP: 1/3-1/8 ROT.: REVERSIBLE RPM: 825 TYPE: UF FRAME: 48 VOLTS: 460 PH: 1 AMPS: 1.0 HZ: 60 INS.: F AMB.: 70°C DUTY: AIR OVER CAP.: 7.5 MFD/370 V ENCL: ENCLOSED UL LOGO CSA LOGO THERMALLY PROTECTED	SEP. CAP. BROWN BRN/WHT WHITE BLACK LINE ROTATION BLACK WHITE CCWLE WHITE BLACK CWLE 614131-242

PERFORMANCE CURVE NO.	TORQUE @ 825 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT FILE #	CCN #	CSA FILE #	CLASS #
C0000066	35.9 OZ. FT.	0801374C	E46412	PRGY2	LR43341	4211-01

COLOR	LENGTH	TERMINAL OR STRIP LENGTH
GREEN (GROUND)	12.0/13.0 [305/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN	47.5/51.5 [1206/1308]	.25[6.35] FLAG
BROWN/WHITE	47.5/51.5 [1206/1308]	.25[6.35] FLAG
WHITE	47.5/51.5 [1206/1308]	.50[12.7] SKIN
BLACK	47.5/51.5 [1206/1308]	.50[12.7] SKIN

REGAL-BELOIT CORPORATION (RBC) PROVIDES TECHNICAL ASSISTANCE TO OUR CUSTOMERS IN SEVERAL AREAS. SINCE RBC DOES NOT RECEIVE ALL DATA CONCERNING THE USE AND APPLICATION OF THE MOTOR, THE SUITABILITY OF THE MOTOR FOR THE APPLICATION MUST BE DETERMINED BY THE CUSTOMER.

DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

ENCLOSURE	CUSTOMER	DISTRIBUTION SERVICE
MAIN FRAME - OLE ENCLOSED END FRAME - OLE ENCLOSED MAIN FRAME - LE ENCLOSED END FRAME - LE ENCLOSED		

- NOTES:
1. ATTACH INSTRUCTION SHEET 681572-003 ONTO SHAFT APPROX. 1.0[25] FROM WATER SLINGER (OR 69P9-3 ONLY USED IN MEXICO)
 2. (4) SCREWS 615982-001 & (4) EXTRA HEX NUTS 7555A19H01 TO BE PUT IN A POLYBAG.

DRAWING REVISION	REVISION BY	DATE
F	GELINE ZHAO	05-23-2019
ECO	KEYUN GONG	05-23-2019
ECO-0166568		
SEE ECO		

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DRAWN BY:	DATE:	APPROVED BY:	DATE:
A. NAJERA	05-05-2011	J. RUPERT	05-05-2011
DESCRIPTION	MODEL-RFHP-48FR OUTLINE		
MATERIAL		PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE DWG NO	C	ORM4688BF
			SHEET 1



- NOTES:
1. FOR USE WITH 614129 NAMEPLATE BLANK
 2. — — — — — INDICATES DIMENSION LIMITS
 3. DIE TO BE MADE FROM MASTER SUPPLIED BY REGAL REXNORD CORPORATION
 4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

DRAWING REVISION H	REVISION BY J. RUPERT	DATE 03-16-2022
ECO NMR-0213140	APPROVED BY J. RUPERT	DATE 03-16-2022
ECO DESCRIPTION REVISED FOR UP ISSUED		

TOLERANCES UNLESS OTHERWISE SPECIFIED			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±0.5°
.XX	±0.02	[±0.51]	
.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 [.51]			
MACHINED SURFACES			
	INCH	mm	
	125	3.2	
mm SHOWN IN [BRACKETS]			

DRAWN BY: YL	THIRD ANGLE PROJECTION
DATE: 04-15-2011	
APPROVED BY: HZ	
DATE: 04-15-2011	
REFERENCE	

Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL	
MATERIAL	PROCESS/FINISH
SIZE A	DWG NO 4 of 24
614131-242	
SHEET 1	

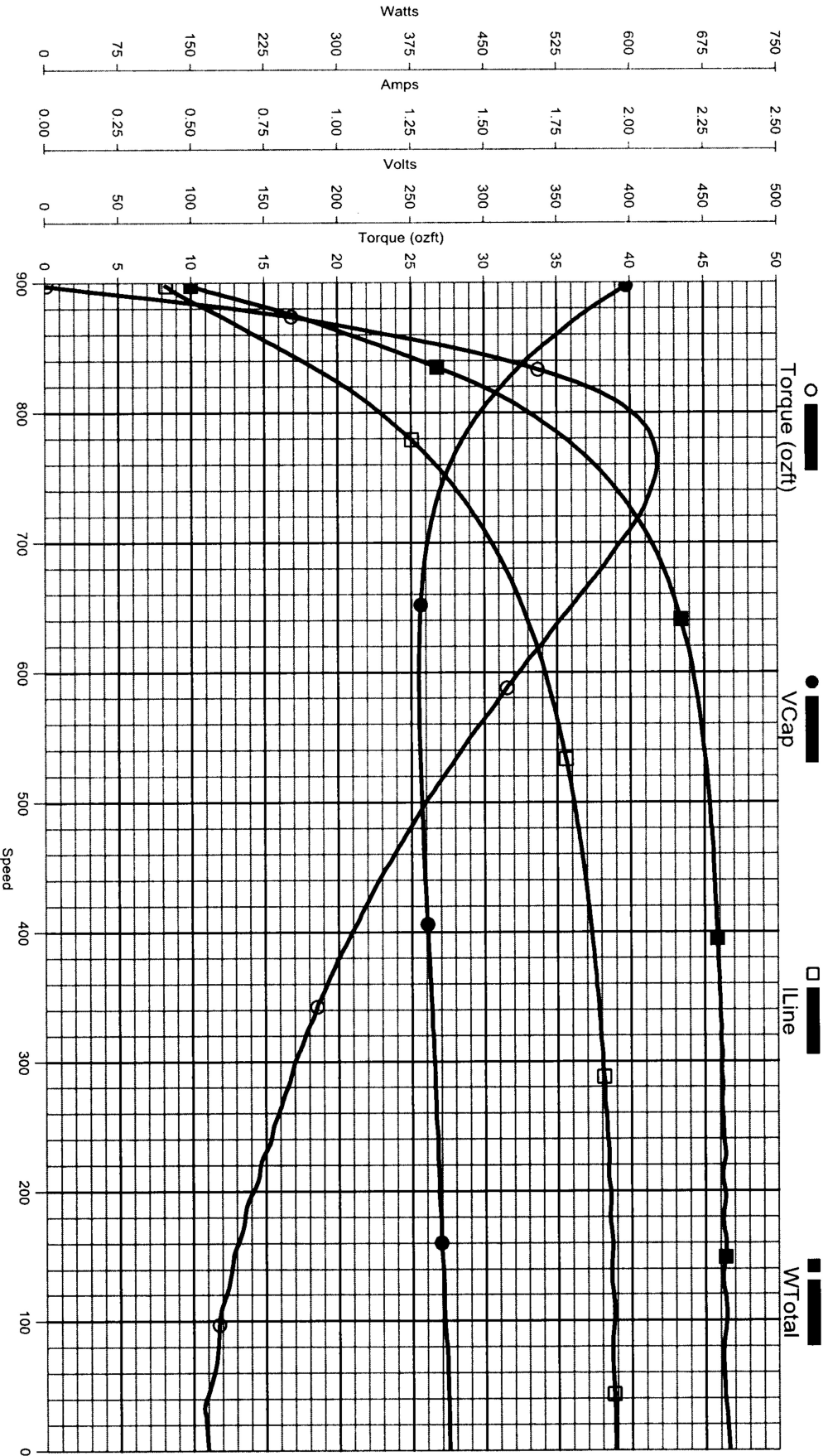
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Performance Test Project: 0801374 (High Speed)

AO Smith

C00000066

Thursday, October 30, 2008 05:13 AM



TRACKING #: 10071010
 SBU: Heating & Air Cond
 ENGINEER: C. BRANTHAM
 TECHNICIAN: DAN THOMPSON
 TORQUE CELL: 250-1 inlb
 NP RPM: 825
 # SPEEDS: 1
 MOTOR #: 1
 COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
 MODEL: 0801374C
 FRAME: 48
 PHASES: 1
 VOLTS: 460.0
 HERTZ: 60
 RUN CAP: 7.50
 COMMENT 1:
 COMMENT 3:

DESCRIPTION: SYNC-0
 TYPE: PSC
 BENCH: 1
 HP: 0.33
 ROTATION: CCW
 BDT: 41.83
 LRA: 1.94
 LRT: 10.98
 COMMENT 4:

AO Smith

Performance Test Results For 0801374

(High Speed)

10-30-2008
05:13 am

TRACKING #: 10071010
 SBU: Heating & Air Cond
 ENGINEER: C. BRANHAM
 TECHNICIAN: DAN THOMPSON
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 BDT: 41.83
 LRA: 1.94
 LRT: 10.98
 COMMENT 4:

Resistance:
 Start Main1
 03-02 01-02
 10.00 0.00
 Before 71.171 77.918 @24.1 °C
 After 72.624 79.823 @24.2 °C

Friction: -1.8952 ozft @ 200 RPM
 Friction + Wind: -2.8633 ozft @ 810 RPM
 Inertia: 0.0455 ozft

Down Results (Torque In ozft):

% Load	Torque	RPM	VLine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NI	0.00	897.5	460.1	397.3	358.7	0.41	1.13	1.14	148.8	0.0	0.0	78.9	0.00
NP+60	9.55	885.0	460.4	380.0	357.5	0.51	1.00	1.08	209.4	75.0	35.8	89.2	0.10
NP-50*	16.13	875.0	460.2	366.8	355.5	0.60	0.93	1.05	255.3	125.2	49.1	92.5	0.17
NP+40	21.24	865.0	460.1	355.5	352.8	0.68	0.90	1.01	294.2	163.0	55.4	94.0	0.22
NP-25*	27.93	850.0	459.6	338.7	347.6	0.80	0.89	0.96	349.7	210.7	60.2	95.1	0.28
NP+20	29.87	845.0	459.6	333.4	345.7	0.84	0.89	0.95	367.5	224.0	60.9	95.2	0.30
NP	35.88	825.0	461.3	315.8	338.8	0.99	0.97	0.90	433.9	262.7	60.5	95.0	0.35
FL	38.00	815.2	462.0	308.2	335.0	1.06	1.02	0.88	461.8	274.9	59.5	94.3	0.37
NP-20	39.57	805.0	461.9	300.6	330.6	1.12	1.08	0.86	485.8	282.7	58.2	93.9	0.38
NP+25*	40.14	800.0	461.8	297.2	328.3	1.15	1.11	0.85	496.2	285.0	57.4	93.4	0.38
NP-40	41.30	785.0	461.5	288.1	321.7	1.22	1.20	0.82	525.0	287.7	54.8	93.2	0.39
NP+50*	41.65	775.0	461.4	283.0	317.4	1.27	1.25	0.81	541.9	286.4	52.9	92.5	0.38
NP-60	41.82	765.0	461.2	278.6	313.2	1.31	1.31	0.79	556.7	283.9	51.0	92.1	0.38
BDT	41.83	760.7	461.2	276.9	311.4	1.33	1.33	0.79	562.6	282.4	50.2	91.7	0.38
MT	41.83	760.7	461.2	276.9	311.4	1.33	1.33	0.79	562.6	282.4	50.2	91.7	0.38
NP-80	41.55	745.0	460.8	271.1	305.0	1.39	1.42	0.77	581.1	274.7	47.3	90.7	0.37
NP-100	40.85	725.0	460.8	265.8	297.7	1.46	1.51	0.76	601.5	262.8	43.7	89.4	0.35
NP-200	34.19	625.0	460.8	255.4	268.8	1.67	1.86	0.73	656.9	189.6	28.9	85.4	0.25
NP-300	27.51	525.0	460.8	256.2	249.4	1.79	2.06	0.73	677.2	128.2	18.9	82.1	0.17
HS	23.29	450.0	460.8	258.6	238.9	1.84	2.16	0.74	684.3	93.0	13.6	80.7	0.12
NP-400	22.09	425.0	460.7	259.8	235.7	1.85	2.19	0.74	685.7	83.3	12.1	80.5	0.11
PUT	10.71	33.1	460.8	274.3	204.2	1.94	2.39	0.78	695.7	3.1	0.5	77.8	0.00
LR	10.98	0.0	461.6	274.6	204.5	1.94	2.39	0.78	698.8	0.0	0.0	78.0	0.00

LRA=LOCKED ROTOR AMPS
 LRT=LOCKED ROTOR TORQUE

BDT =BREAKDOWN TORQUE
 NP RPM=NAMEPLATE RPM

MT=MAX TORQUE

AO Smith

Manual Test Results For 0801374

(High Speed)

10-30-2008
05:08 am

TRACKING # : 10071010	CUSTOMER : DISTRIBUTION SERVICES	DESCRIPTION : IDLE
SBU : Heating & Air Cond	MODEL : 0801374C	TYPE : PSC
ENGINEER : C. BRANHAM	FRAME : 48	BENCH : 1
TECHNICIAN : DAN THOMPSON	PHASES : 1	HP : 0.33
TORQUE CELL : 250-1 Inlb	VOLTS : 460.0	ROTATION : CCW
NP RPM : 825	HERTZ : 60	BDT : 0.00
# SPEEDS : 1	RUN CAP : 7.50	LRA : 0.00
MOTOR # : 1	COMMENT1 :	LRT : 0.00
COMMENT 2 :	COMMENT 3 :	COMMENT 4 :

Resistance:

Start	Main1
03-02	01-02
10.00	0.00
Results	77.792
	@23.8 °C

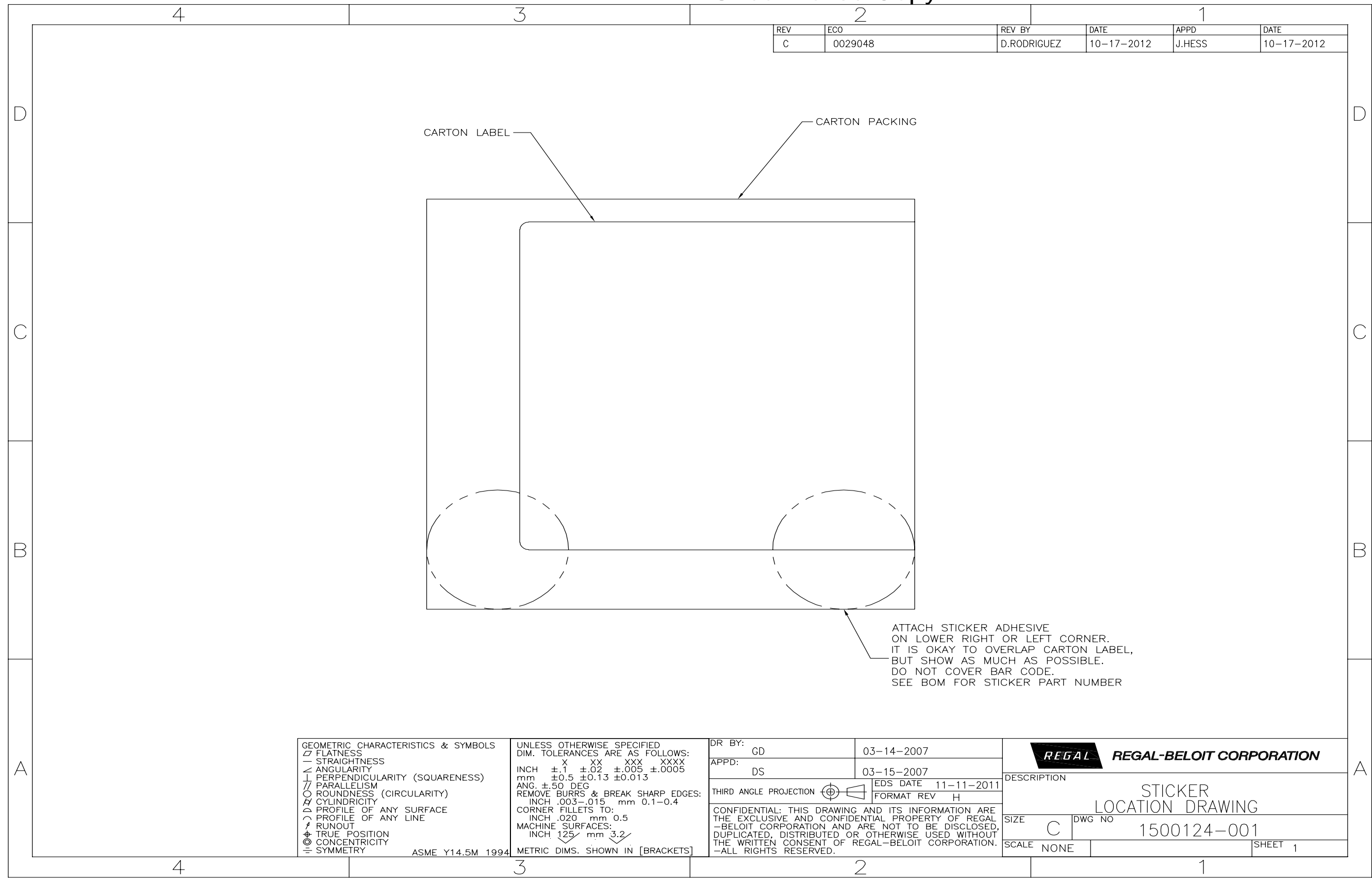
VLine VStart	VCap	Iline	IMain	IStart	WLine	TC01	TC02	TC03	TC04	Time
460.7	356.4	397.4	0.42	1.12	1.13	153.3	OPEN	OPEN	OPEN	05:07:39 am



**Document Packet
for
MODEL-RFHP-48FR
ORM4688BF REV NC**



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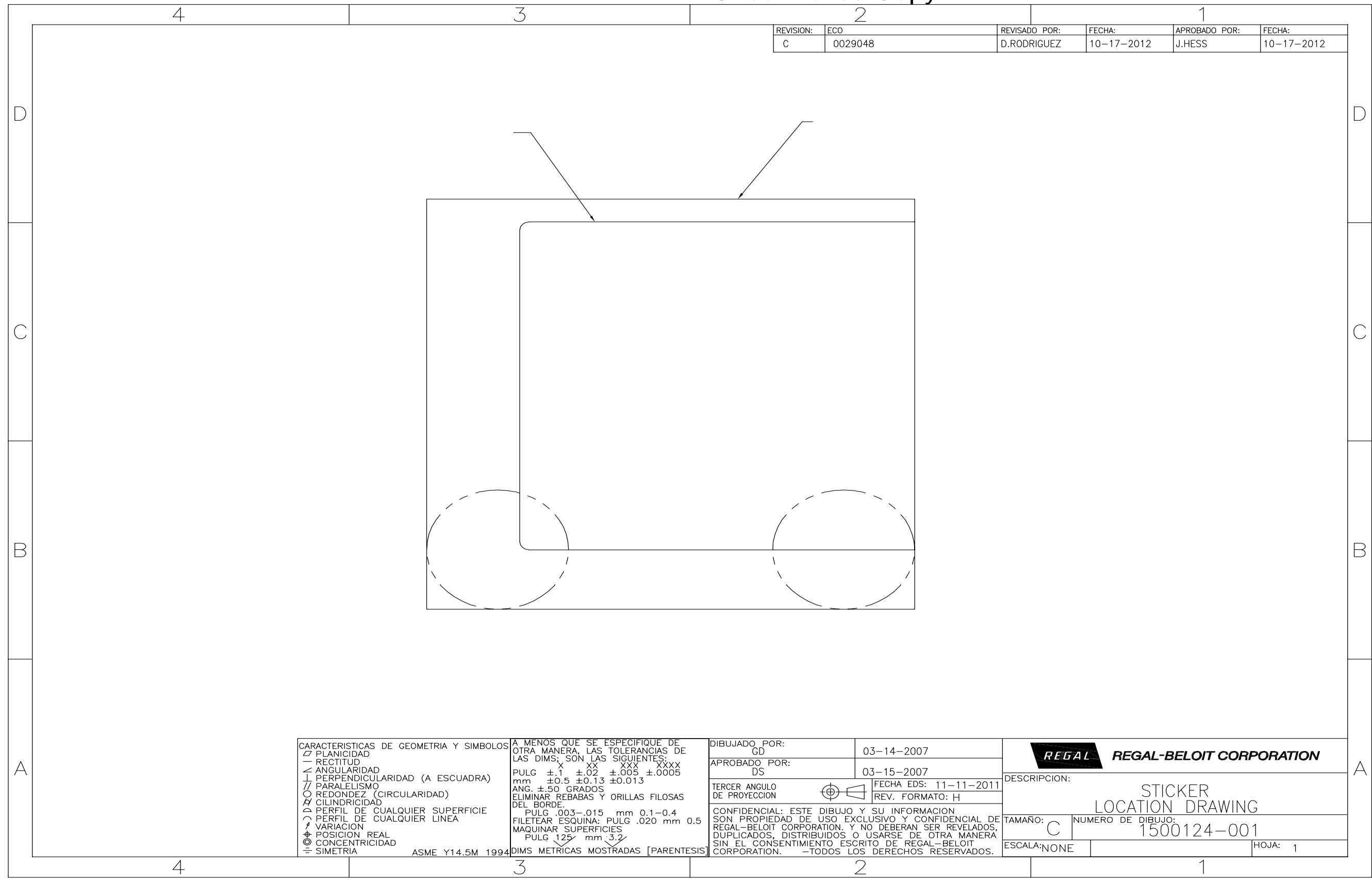


REV	ECO	REV BY	DATE	APPD	DATE
C	0029048	D.RODRIGUEZ	10-17-2012	J.HESS	10-17-2012

GEOMETRIC CHARACTERISTICS & SYMBOLS ▯ FLATNESS — STRAIGHTNESS ∟ ANGULARITY ⊥ PERPENDICULARITY (SQUARENESS) // PARALLELISM ○ ROUNDNESS (CIRCULARITY) ⊘ CYLINDRICITY △ PROFILE OF ANY SURFACE ∩ PROFILE OF ANY LINE ↗ RUNOUT ⊕ TRUE POSITION ⊙ CONCENTRICITY = SYMMETRY ASME Y14.5M 1994	UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS: INCH X XX XXX XXXX mm ±0.5 ±0.13 ±0.005 ±.0005 ANG. ±.50 DEG REMOVE BURRS & BREAK SHARP EDGES: INCH .003-.015 mm 0.1-0.4 CORNER FILLETS TO: INCH .020 mm 0.5 MACHINE SURFACES: INCH 125 mm 3.2 METRIC DIMS. SHOWN IN [BRACKETS]	DR BY:	GD	03-14-2007	REGAL-BELOIT CORPORATION		
		APPD:	DS	03-15-2007			
		THIRD ANGLE PROJECTION		EDS DATE	11-11-2011	DESCRIPTION	STICKER LOCATION DRAWING
		CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF REGAL-BELOIT CORPORATION AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF REGAL-BELOIT CORPORATION. -ALL RIGHTS RESERVED.				SIZE	C
				SCALE	NONE	SHEET	1

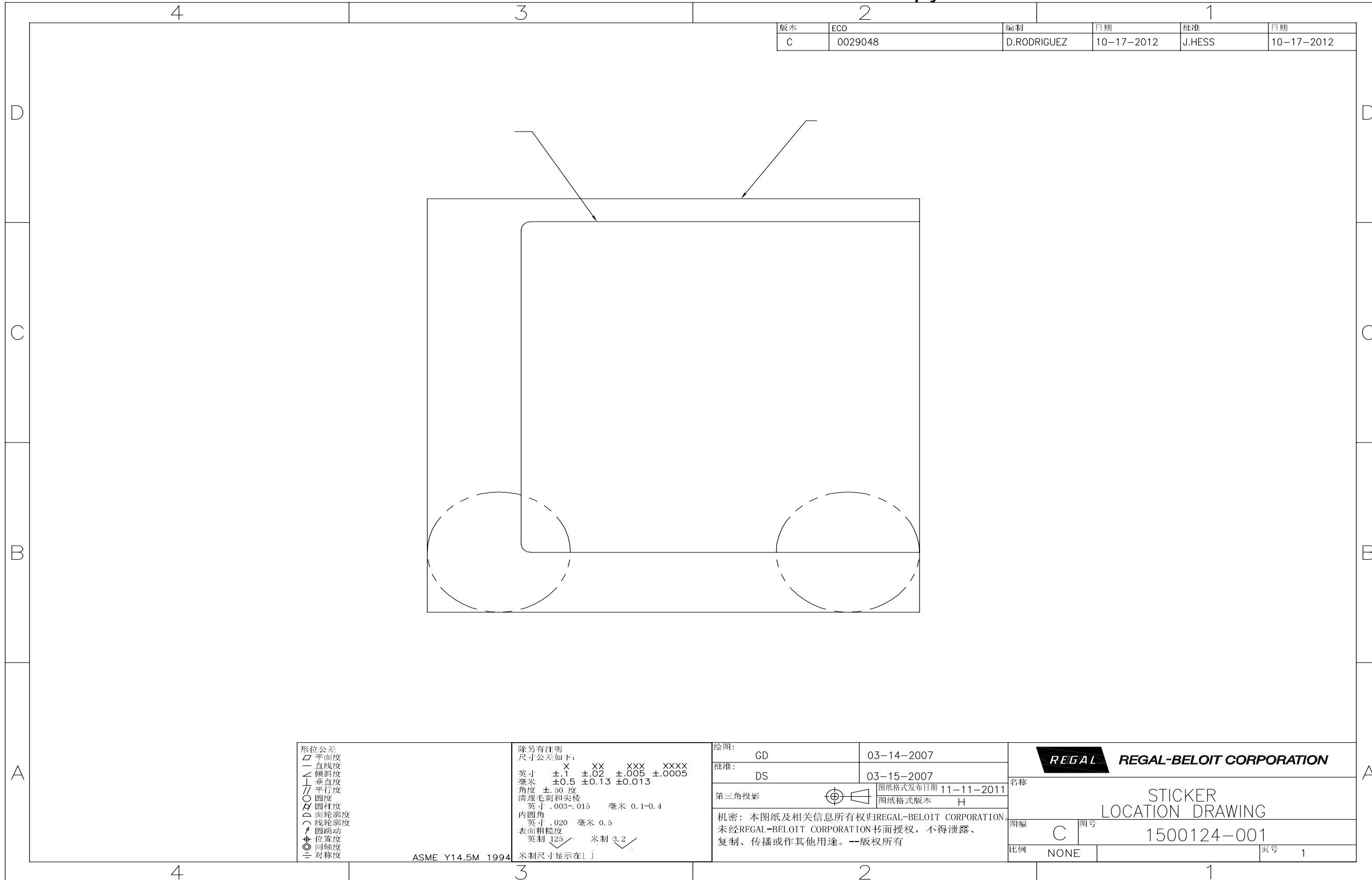


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版本	ECO	编制	日期	批准	日期
C	0029048	D.RODRIGUEZ	10-17-2012	J.HESS	10-17-2012

形位公差 □ 平面度 — 直线度 < 倾斜度 ⊥ 垂直度 // 平行度 ○ 圆度 ⊘ 圆柱度 Ⓜ 面轮廓度 Ⓝ 线轮廓度 Ⓞ 圆跳动 ⊕ 位置度 ⊙ 同轴度 ≡ 对称度	除另有注明 尺寸公差如下: 英寸 X XX XXX XXXX 毫米 ±.1 ±.02 ±.005 ±.0005 毫米 ±0.5 ±0.13 ±0.013 角度 ±.50 度 清理毛刺和尖棱 英寸 .003-.015 毫米 0.1-0.4 内圆角 英寸 .020 毫米 0.5 表面粗糙度 英制 125 米制 3.2 米制尺寸显示在 []
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绘图: GD 03-14-2007 批准: DS 03-15-2007 第三角投影 图纸格式发布日期 11-11-2011 图纸格式版本 H 机密: 本图纸及相关信息所有权归REGAL-BELOIT CORPORATION. 未经REGAL-BELOIT CORPORATION书面授权, 不得泄露、复制、传播或作其他用途。—版权所有
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REGAL-BELOIT CORPORATION	
名称	STICKER LOCATION DRAWING
图幅	C
图号	1500124-001
比例	NONE
页号	1

ASME Y14.5M 1994



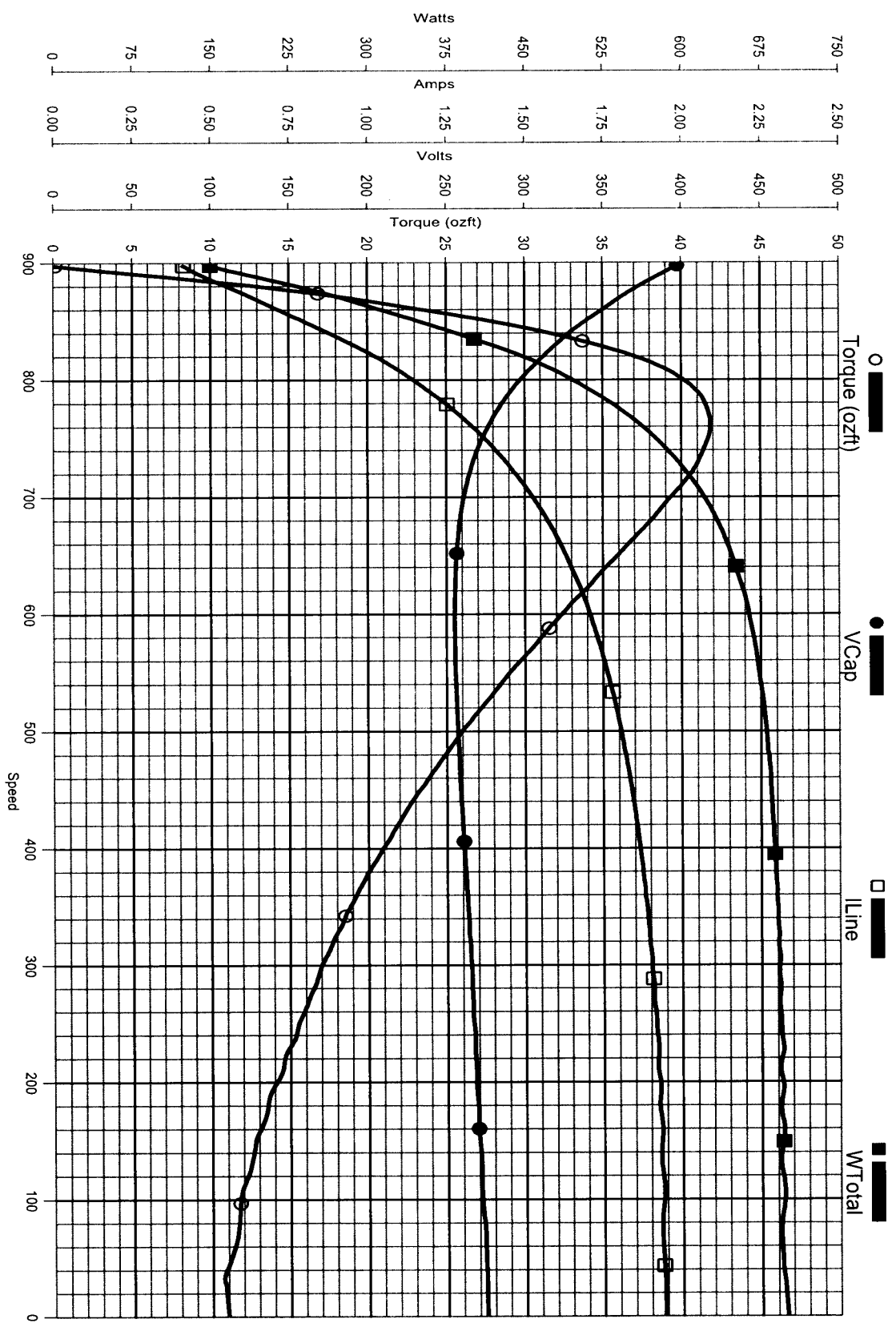
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Performance Test Project: 0801374 (High Speed)

AO Smith

COOOOOOL

Thursday, October 30, 2008 05:13 AM



TRACKING #: 10071010
 SBU: Heating & Air Cond
 ENGINEER: C. BRANHAM
 TECHNICIAN: DAN THOMPSON
 TORQUE CELL: 250-1 inlb
 NP RPM: 825
 # SPEEDS: 1
 MOTOR #: 1
 COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
 MODEL: 0801374C
 FRAME: 48
 PHASES: 1
 VOLTS: 460.0
 HERTZ: 60
 RUN CAP: 7.50
 COMMENT 1:
 COMMENT 3:

DESCRIPTION: SYNC-0
 TYPE: PSC
 BENCH: 1
 HP: 0.33
 ROTATION: CCW
 BDT: 41.83
 LRA: 1.94
 LRT: 10.98
 COMMENT 4:



Uncontrolled Copy

AO Smith

Performance Test Results For 0801374

(High Speed)

10-30-2008
05:13 am

TRACKING #: 10071010
 SBU: Heating & Air Cond
 ENGINEER: C. BRANHAM
 TECHNICIAN: DAN THOMPSON
 TORQUE CELL: 250-1 inlb
 NP RPM: 825
 # SPEEDS: 1
 MOTOR #: 1
 COMMENT 2:

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DESCRIPTION: SYNC-0
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 ROTATION: CCW
 BDT: 41.83
 LRA: 1.94
 LRT: 10.98

Resistance:
 Start Main1
 03-02 01-02
 Spec 10.00 0.00
 Before 71.171 77.918 @24.1 °C
 After 72.624 79.823 @24.2 °C

Friction: -1.8952 ozft @ 200 RPM
 Friction + Wind: -2.8633 ozft @ 810 RPM
 Inertia: 0.0455 ozft

Down Results (Torque In ozft):

NP	Load Torque	RPM	Vline	Vcap	VStart	Iline	Imain	Istart	Wline	Wout	% Eff	% PF	HP
NP+60	0.00	897.5	460.1	397.3	358.7	0.41	1.13	1.14	148.8	0.0	0.0	78.9	0.00
NP+60	9.55	885.0	460.4	380.0	357.5	0.51	1.00	1.08	209.4	75.0	35.8	89.2	0.10
NP+50*	16.13	875.0	460.2	366.8	355.5	0.60	0.93	1.05	255.3	125.2	49.1	92.5	0.17
NP+40	21.24	865.0	460.1	355.5	352.8	0.68	0.90	1.01	294.2	163.0	55.4	94.0	0.22
NP+25*	27.93	850.0	459.6	338.7	347.6	0.80	0.89	0.96	349.7	210.7	60.2	95.1	0.28
NP+20	29.87	845.0	459.6	333.4	345.7	0.84	0.89	0.95	367.5	224.0	60.9	95.2	0.30
NP	35.88	825.0	461.3	315.8	338.8	0.99	0.97	0.90	433.9	262.7	60.5	95.0	0.35
FL	38.00	815.2	462.0	308.2	335.0	1.06	1.02	0.88	461.8	274.9	59.5	94.3	0.37
NP-20	39.57	805.0	461.9	300.6	330.6	1.12	1.08	0.86	485.8	282.7	58.2	93.9	0.38
NP+25*	40.14	800.0	461.8	297.2	328.3	1.15	1.11	0.85	496.2	285.0	57.4	93.4	0.38
NP-40	41.30	785.0	461.5	288.1	321.7	1.22	1.20	0.82	525.0	287.7	54.8	93.2	0.39
NP+50*	41.65	775.0	461.4	283.0	317.4	1.27	1.25	0.81	541.9	286.4	52.9	92.5	0.38
NP-60	41.82	765.0	461.2	278.6	313.2	1.31	1.31	0.79	556.7	283.9	51.0	92.1	0.38
BDT	41.83	760.7	461.2	276.9	311.4	1.33	1.33	0.79	562.6	282.4	50.2	91.7	0.38
MT	41.83	760.7	461.2	276.9	311.4	1.33	1.33	0.79	562.6	282.4	50.2	91.7	0.38
NP-80	41.55	745.0	460.8	271.1	305.0	1.39	1.42	0.77	581.1	274.7	47.3	90.7	0.37
NP-100	40.85	725.0	460.8	265.8	297.7	1.46	1.51	0.76	601.5	262.8	43.7	89.4	0.35
NP-200	34.19	625.0	460.8	255.4	268.8	1.67	1.86	0.73	656.9	189.6	28.9	85.4	0.25
NP-300	27.51	525.0	460.8	266.2	249.4	1.79	2.06	0.73	677.2	128.2	18.9	82.1	0.17
HS	23.29	450.0	460.8	258.6	238.9	1.84	2.16	0.74	684.3	93.0	13.6	80.7	0.12
NP-400	22.09	425.0	460.7	259.8	235.7	1.85	2.19	0.74	685.7	83.3	12.1	80.5	0.11
PUT	10.71	33.1	460.8	274.3	204.2	1.94	2.39	0.78	695.7	3.1	0.5	77.8	0.00
LR	10.98	0.0	461.6	274.6	204.5	1.94	2.39	0.78	698.8	0.0	0.0	78.0	0.00

LRA=LOCKED ROTOR AMPS
 LRT=LOCKED ROTOR TORQUE
 BDT =BREAKDOWN TORQUE
 NP RPM=NAMEPLATE RPM
 MT=MAX TORQUE



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AO Smith

Manual Test Results For 0801374

(High Speed)

10-30-2008
05:08 am

TRACKING #: 10071010
 SBU: Heating & Air Cond
 ENGINEER: C. BRANHAM
 TECHNICIAN: DAN THOMPSON
 TORQUE CELL: 250-1 inlb
 NP RPM: 825
 # SPEEDS: 1
 MOTOR #: 1
 COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
 MODEL: 0801374C
 FRAME: 48
 PHASES: 1
 VOLTS: 460.0
 HERTZ: 60
 RUN CAP: 7.50
 COMMENT 1:
 COMMENT 3:

DESCRIPTION: IDLE
 TYPE: PSC
 BENCH: 1
 HP: 0.33
 ROTATION: CCW
 BDT: 0.00
 LRA: 0.00
 LRT: 0.00
 COMMENT 4:

Resistance:
 Start Main1
 03-02 01-02
 Spec 10.00 0.00
 Results 71.053 77.792 @23.8 °C

VLine	VStart	Vcap	ILine	IMain	IStart	WLine	TC01	TC02	TC03	TC04	Time
460.7	356.4	397.4	0.42	1.12	1.13	153.3	OPEN	OPEN	OPEN	OPEN	05:07:39 am



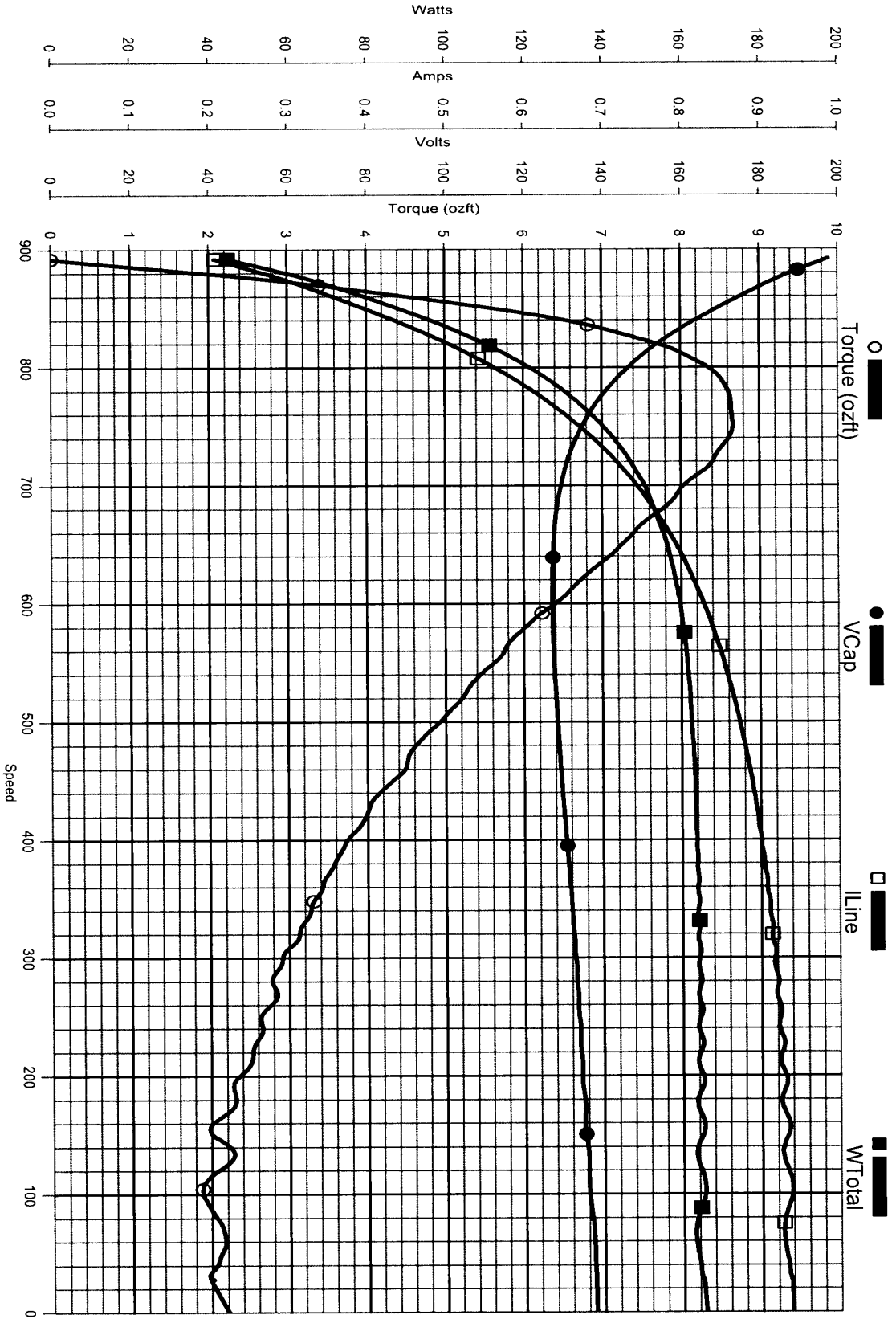
Uncontrolled Copy

Performance Test Project: 0801374 (High Speed)

AO Smith

20000267

Thursday, October 30, 2008 05:16 AM



TRACKING #: 10071010
 SBU: Heating & Air Cond
 ENGINEER: C. BRANHAM
 TECHNICIAN: DAN THOMPSON
 TORQUE CELL: 250-1 inlb
 NP RPM: 825
 # SPEEDS: 1
 MOTOR #: 1
 COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
 MODEL: 0801374C
 FRAME: 48
 PHASES: 1
 VOLTS: 230.0
 HERTZ: 60
 RUN CAP: 7.50
 COMMENT 1:
 COMMENT 3:

DESCRIPTION: SYNC-0
 TYPE: PSC
 BENCH: 1
 HP: 0.13
 ROTATION: CCW
 BDT: 0.00
 LRA: 0.94
 LRT: 2.21
 COMMENT 4:



Uncontrolled Copy

AO Smith

Performance Test Results For 0801374

(High Speed)

10-30-2008
05:16 am

TRACKING #: 10071010
 SBU: Heating & Air Cond
 ENGINEER: C. BRANHAM
 TECHNICIAN: DAN THOMPSON
 TORQUE CELL: 250-1 inlb
 NP RPM: 825
 # SPEEDS: 1
 MOTOR #: 1
 COMMENT 2:

CUSTOMER: DISTRIBUTION SERVICES
 MODEL: 0801374C
 FRAME: 48
 PHASES: 1
 VOLTS: 230.0
 HERTZ: 60
 RUN CAP: 7.50
 COMMENT 1:
 COMMENT 3:

DESCRIPTION: SYNC-0
 TYPE: PSC
 BENCH: 1
 HP: 0.13
 ROTATION: CCM
 BDT: 0.00
 LRA: 0.94
 LRT: 2.21
 COMMENT 4:

Resistance:
 Start Main1
 03-02 01-02
 10.00 0.00
 Before 71.534 78.319 @24.2 °C
 After 71.699 78.565 @24.2 °C

Friction: -1.8950 ozft @ 200 RPM
 Friction + Wind: -2.7645 ozft @ 810 RPM
 Inertia: 0.0433 ozft

Down Results (Torque In ozft):

Load	Torque	RPM	Vine	VCap	VStart	ILine	IMain	IStart	WLine	WOut	% Eff	% PF	HP
NI	0.00	891.9	230.2	197.7	182.0	0.21	0.50	0.56	44.7	0.0	0.0	92.5	0.00
BDT	0.00	891.9	230.2	197.7	182.0	0.21	0.50	0.56	44.7	0.0	0.0	92.5	0.00
NP+60	1.06	885.0	229.9	192.2	181.6	0.24	0.46	0.55	53.4	8.3	15.6	96.8	0.01
NP-50*	2.69	875.0	229.9	184.5	180.1	0.29	0.43	0.53	65.4	20.9	31.9	98.1	0.03
NP+40	3.95	865.0	230.0	178.3	178.4	0.34	0.42	0.51	75.1	30.3	40.4	96.0	0.04
NP-25*	5.62	850.0	230.2	169.4	175.5	0.40	0.42	0.48	88.2	42.4	48.1	95.8	0.06
NP+20	6.10	845.0	230.2	166.6	174.5	0.42	0.43	0.47	92.3	45.7	49.6	95.5	0.06
NP	7.43	825.0	230.1	156.3	169.7	0.49	0.47	0.45	107.1	54.4	50.8	95.0	0.07
NP-20	8.21	805.0	230.0	148.4	164.9	0.55	0.53	0.42	119.1	58.6	49.2	94.2	0.08
NP+25*	8.35	800.0	230.0	146.7	163.8	0.56	0.54	0.42	121.7	59.3	48.7	94.5	0.08
NP-40	8.56	785.0	230.0	142.2	160.3	0.60	0.59	0.40	128.5	59.6	46.4	93.1	0.08
NP+50*	8.63	775.0	229.9	139.7	158.1	0.62	0.62	0.40	132.3	59.4	44.9	92.8	0.08
NP-60	8.64	765.0	229.9	137.5	155.9	0.64	0.64	0.39	133.6	58.7	43.2	92.2	0.08
MT	8.66	752.5	230.1	135.3	153.5	0.67	0.68	0.38	139.6	57.8	41.4	90.6	0.08
NP-80	8.64	745.0	230.1	134.1	152.1	0.68	0.70	0.38	141.7	57.1	40.3	90.6	0.08
NP-100	8.44	725.0	230.1	131.5	148.3	0.71	0.74	0.37	146.3	54.3	37.1	89.6	0.07
NP-200	6.81	625.0	230.3	127.2	133.8	0.81	0.91	0.36	158.2	37.8	23.9	84.8	0.05
NP-300	5.26	525.0	230.2	128.4	124.0	0.86	1.01	0.36	162.1	24.5	15.1	81.9	0.03
HS	4.32	450.0	230.1	129.4	118.7	0.89	1.06	0.37	163.3	17.3	10.6	79.7	0.02
NP-400	4.01	425.0	230.1	130.0	117.1	0.89	1.07	0.37	163.4	15.1	9.3	79.8	0.02
PUT	1.88	103.6	230.1	136.0	103.9	0.94	1.16	0.39	165.5	1.7	1.0	76.5	0.00
LR	2.21	0.0	230.5	137.7	101.4	0.94	1.17	0.39	165.6	0.0	0.0	76.4	0.00

LRA=LOCKED ROTOR AMPS
 LRT=LOCKED ROTOR TORQUE
 BDT =BREAKDOWN TORQUE
 NP RPM=NAMEPLATE RPM
 MT=MAX TORQUE



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单相电机电气性能检测
Assembled Single Phase Motor Electrical Inspection

测试电压(V): Test Voltage(V):	230	转向: Rotation:	可逆转向 REV		E10006174	
测试频率(HZ): Test Frequency(HZ):	60	最低启动电压(V): Must start Volts(V):	290		MODEL: ORM4688BF,ORM4688BU	发行日期: Issue Date: 2014/5/19
启动电容(μF): Start Cap. (MFD):	NA	运行电容(μF): Run Cap. (MFD):	7.5		满载电容电压(V): Full Load Vc(V):	--
		安培 Amperes		瓦特 Watts	扭矩(N.m) Torque (N.m)	
接线方式 Connection	测试 Test	最小 Minimum	最大 Maximum	最大 Maximum	转/分钟 RPM	
高速 High Speed	空载 No Load	0.20	0.23	47		
	满载 Full Load	0.47	0.54	112	818/833	0.630
	堵载 Locked				0	0.178
低速 Low Speed	空载 No Load					
	满载 Full Load					
	堵载 Locked					
在转速点的最小扭矩(N.m) Minimum Torque in N.m at Speed						
测试 Test	高速 High	中高速 Med-High	中速 Med	中低速 Med-Low	低速 Low	
最大扭矩 Breakdown TQ	0.697	0.00	0.00	0.00	0.00	
最小扭矩 Pull Up						
		开 Open	关 Close	最小 Mimum	最大 Maximum	
保护器测试 Thermal Protector Testing						
保护器部件号: Protector part number:	680137-008			秒 Seconds		跳闸时 最大绕组温度 Max. Winding Temp at Trip
测试电压(V): Test Voltage(V):	240			最小 Minimum	最大 Maximum	
测试频率(HZ): Test Frequency (HZ):	60	第一个周期 1st Cycle Trip		--	--	225°C
绝缘测试: Dielectric test:	2300	电压保持1秒钟(V) Volts applied for 1 Second		测试开始和结束最大漏电流(mA) (mA) Leakage Max, Start and End of Test		
其它备注: A:0326XXX; B:XXXXXXX; C: XXXXXXX; D: XXXXXXX;						
Additional Comments: D C B 2017/3/15 Add model ORM4688BU ECO-0119120 A 2014/5/19 首次发行Initial Issue ECO-0050475 Rev 日期Date 描述Description of Change 通知Notice						
外部连接图表 External Connection Diagram	SEE OUTLINE		注意:数据为电机在25C时测得.接地线到定子铁芯或机壳的接触电阻最大0.05(Ω). 看工程师的签名通知. Notes: Data is with motor at 25C. Ground lead resistance to stator iron or mainframe to be 0.05 ohms maximum. See Notice for engineering signature.			

GENERAL INFORMATION:

SHAFT RUNOUT: .001[.03] T.I.R. PER INCH LENGTH OF EXTENSION

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

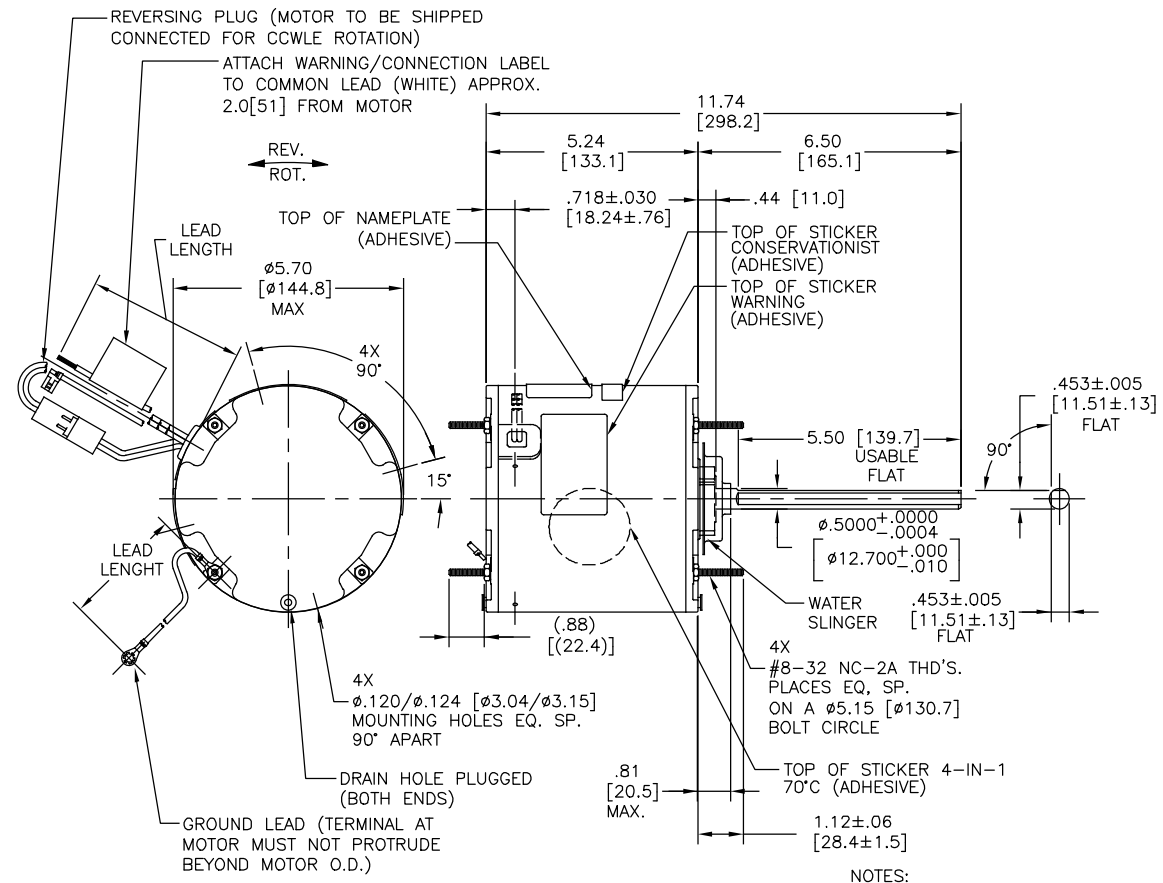
ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (SENSATA 7AM 304)

LINE LEADS: NO. 18 GA., .06[1.5] THK. XLP 125°C INSUL.

REVERSING LEADS: NO. 18 GA., .03[.8] THK. XLP 125°C INSUL.

GROUND LEAD: NO. 18 GA., .03[.8] THK. (GREEN) INSUL.



NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48AB98A01 CUST. P/N: ORM4688BF HP: 1/3-1/8 ROT.: REVERSIBLE RPM: 825 TYPE: UF FRAME: 48 VOLTS: 460 PH: 1 AMPS: 1.0 HZ: 60 INS.: F AMB.: 70°C DUTY: AIR OVER CAP.: 7.5 MFD/370 V ENCL: ENCLOSED UL LOGO CSA LOGO THERMALLY PROTECTED	SEP. CAP. BROWN BRN/WHT WHITE BLACK LINE ROTATION BLACK WHITE CCWLE BLACK WHITE CWLE

PERFORMANCE CURVE NO.	TORQUE @ 825 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT FILE #	CCN #	CSA FILE #	CLASS #
C0000066	35.9 OZ. FT.	0801374C	E46412	PRGY2	LR43341	4211-01

COLOR	LENGTH	TERMINAL OR STRIP LENGTH
GREEN (GROUND)	12.0/13.0 [305/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN	47.5/51.5 [1206/1308]	.25[6.35] FLAG
BROWN/WHITE	47.5/51.5 [1206/1308]	.25[6.35] FLAG
WHITE	47.5/51.5 [1206/1308]	.50[12.7] SKIN
BLACK	47.5/51.5 [1206/1308]	.50[12.7] SKIN

REGAL-BELOIT CORPORATION (RBC) PROVIDES TECHNICAL ASSISTANCE TO OUR CUSTOMERS IN SEVERAL AREAS. SINCE RBC DOES NOT RECEIVE ALL DATA CONCERNING THE USE AND APPLICATION OF THE MOTOR, THE SUITABILITY OF THE MOTOR FOR THE APPLICATION MUST BE DETERMINED BY THE CUSTOMER.

DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

MAIN FRAME - OLE	ENCLOSED
END FRAME - OLE	ENCLOSED
MAIN FRAME - LE	ENCLOSED
END FRAME - LE	ENCLOSED

- NOTES:
1. ATTACH INSTRUCTION SHEET 681572-003 ONTO SHAFT APPROX. 1.0[25] FROM WATER SLINGER (OR 69P9-3 ONLY USED IN MEXICO)
 2. (4) SCREWS 615982-001 & (4) EXTRA HEX NUTS 7555A19H01 TO BE PUT IN A POLYBAG.

DRAWING REVISION	REVISION BY	DATE
F	GELINE ZHAO	05-23-2019
ECO	KEYUN QONG	05-23-2019

ENCLOSURE

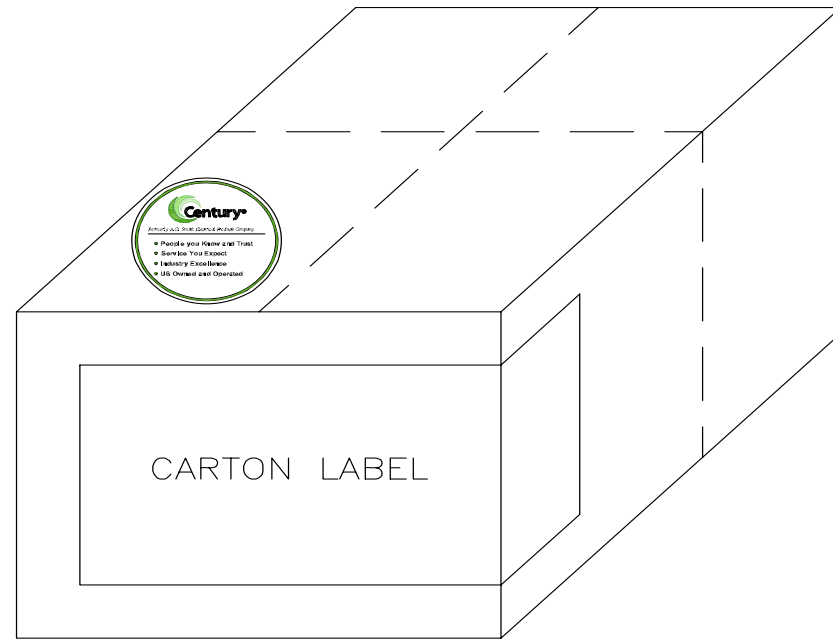
CUSTOMER DISTRIBUTION SERVICE

DRAWN BY: A. NAJERA DATE: 05-05-2011 APPROVED BY: J. RUPERT DATE: 05-05-2011	REGAL Beloit America, Inc. DESCRIPTION: MODEL-RFHP-48FR OUTLINE MATERIAL: - PROCESS/FINISH: -
THIRD ANGLE PROJECTION	SIZE DWG NO: C SHEET: 1



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REV	ECO	REV BY	DATE	APPD	DATE
A	ECO-0026018	J.HESS	08-03-2012	J.RUPERT	08-03-2012



- NOTES:
 1. PLACE THE LABEL, 2516190-001,
 IN THE CORNER OF THE TOP LEFT
 FRONT END OF THE BOX.

GEOMETRIC CHARACTERISTICS & SYMBOLS

- ▭ FLATNESS
- STRAIGHTNESS
- ∠ ANGULARITY
- ⊥ PERPENDICULARITY (SQUARENESS)
- // PARALLELISM
- ROUNDNESS (CIRCULARITY)
- ⊘ CYLINDRICITY
- ⌒ PROFILE OF ANY SURFACE
- ⌒ PROFILE OF ANY LINE
- ↗ RUNOUT
- ⊕ TRUE POSITION
- ◎ CONCENTRICITY
- ≡ SYMMETRY

ASME Y14.5M 1994

UNLESS OTHERWISE SPECIFIED
 DIM. TOLERANCES ARE AS FOLLOWS:

INCH	±.1	±.02	±.005	±.0005
mm	±0.5	±0.13	±0.013	

ANG. ±.50 DEG
 REMOVE BURRS & BREAK SHARP EDGES:
 INCH .003-.015 mm 0.1-0.4

CORNER FILLETS TO:
 INCH .020 mm 0.5
 MACHINE SURFACES:
 INCH 125 mm 3.2

METRIC DIMS. SHOWN IN [BRACKETS]

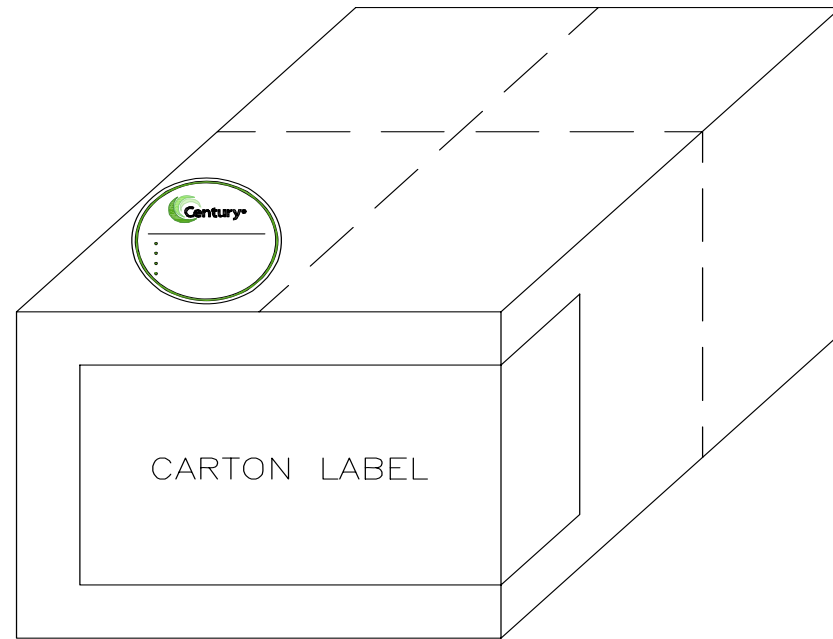
DR BY:	J.HESS	08-03-2012
APPD:	J.RUPERT	08-03-2012
THIRD ANGLE PROJECTION		EDS DATE 11-11-2011 FORMAT REV H
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REGAL-BELOIT CORPORATION	
DESCRIPTION PROCESS SPEC LABEL LOCATION INSTRUCTIONS	
SIZE A	DWG NO PS0912
SCALE NONE	SHEET 1



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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
A	ECO-0026018	J.HESS	08-03-2012	J.RUPERT	08-03-2012



CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS

- ▧ PLANICIDAD
- RECTITUD
- ∠ ANGULARIDAD
- ⊥ PERPENDICULARIDAD (A ESCUADRA)
- // PARALELISMO
- REDONDEZ (CIRCULARIDAD)
- ⊘ CILINDRICIDAD
- ⌒ PERFIL DE CUALQUIER SUPERFICIE
- ⌒ PERFIL DE CUALQUIER LINEA
- ↗ VARIACION
- ⊕ POSICION REAL
- ⊙ CONCENTRICIDAD
- ≡ SIMETRIA

A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS; SON LAS SIGUIENTES:

	X	XX	XXX	XXXX
PULG	±.1	±.02	±.005	±.0005
mm	±0.5	±0.13	±0.013	

ANG. ±.50 GRADOS
ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE.

PULG	.003-.015	mm	0.1-0.4
FILETEAR ESQUINA:	PULG .020	mm	0.5

MAQUINAR SUPERFICIES
PULG 125 mm 3.2

DIMS METRICAS MOSTRADAS [PARENTESIS]

DIBUJADO POR:	J.HESS	08-03-2012
APROBADO POR:	J.RUPERT	08-03-2012
TERCER ANGULO DE PROYECCION		FECHA EDS: 11-11-2011 REV. FORMATO: H

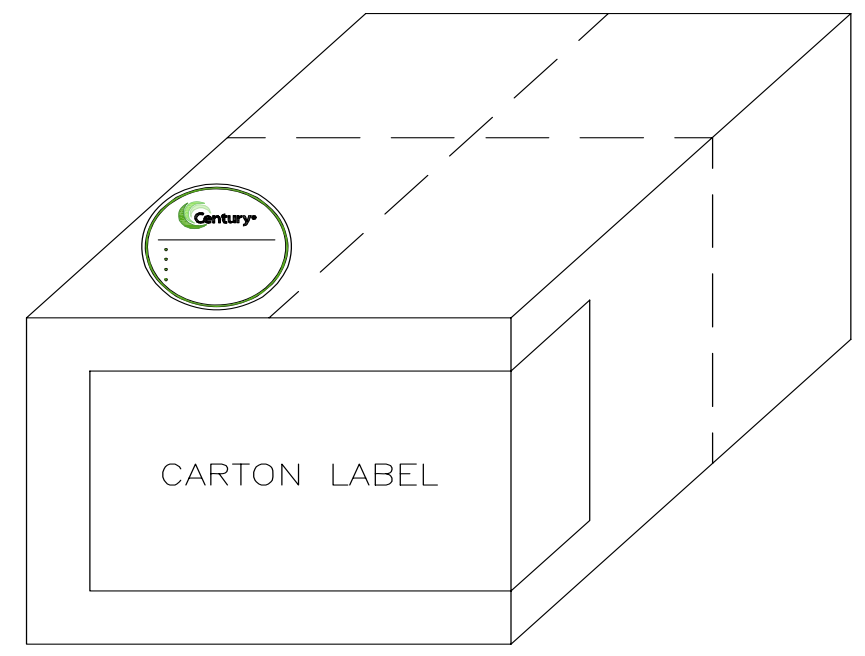
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REGAL REGAL-BELOIT CORPORATION	
DESCRIPCION: PROCESS SPEC LABEL LOCATION INSTRUCTIONS	
TAMAÑO: A	NUMERO DE DIBUJO: PS0912
ESCALA: NONE	HOJA: 1



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版本	ECO	编制	日期	批准	日期
A	ECO-0026018	J.HESS	08-03-2012	J.RUPERT	08-03-2012



形位公差	除另有注明
□ 平面度	尺寸公差如下:
— 直线度	英寸 ±.1 X XX XXX XXXX
∠ 倾斜度	毫米 ±0.5 ±0.13 ±0.013 ±0.005
⊥ 垂直度	角度 ±.50 度
// 平行度	清理毛刺和尖棱
○ 圆度	英寸 .003-.015 毫米 0.1-0.4
⊘ 圆柱度	内圆角
△ 面轮廓度	英寸 .020 毫米 0.5
⌒ 线轮廓度	表面粗糙度
↗ 圆跳动	英制 125 米制 3.2
⊕ 位置度	米制尺寸显示在 []
◎ 同轴度	
≡ 对称度	

ASME Y14.5M 1994

绘图:	J.HESS	08-03-2012
批准:	J.RUPERT	08-03-2012
第三角投影		图纸格式发布日期 11-11-2011 图纸格式版本 H
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REGAL REGAL-BELOIT CORPORATION	
名称 PROCESS SPEC LABEL LOCATION INSTRUCTIONS	
图幅 A	图号 PS0912
比例 NONE	页号 1

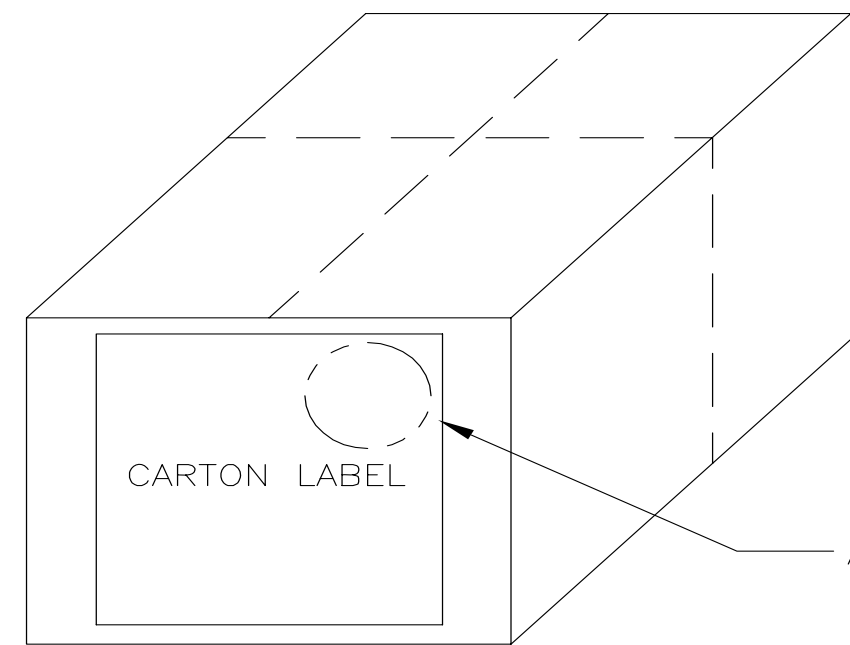


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APPLY ANY OF THE BELOW LISTED LABELS WHEN APPLICABLE. SEE BOM FOR USAGE.

- 2515052-001
- 2515054-001
- 2515055-001
- 2515058-001
- 2515058-002
- 2515058-003
- 2515058-004
- 2517563-001

REV	ECO	REV BY	DATE	APPD	DATE
B	0039625	G. RODRIGUEZ	10-25-2013	TERESITA REYES	10-25-2013



APPLY LABEL WHEN APPLICABLE.

NOTES:

1. PLACE LABEL ON TOP RIGHT CORNER OF CARTON LABEL.

GEOMETRIC CHARACTERISTICS & SYMBOLS ▽ FLATNESS — STRAIGHTNESS ∠ ANGULARITY ⊥ PERPENDICULARITY (SQUARENESS) // PARALLELISM ○ ROUNDNESS (CIRCULARITY) ⊘ CYLINDRICITY △ PROFILE OF ANY SURFACE ∩ PROFILE OF ANY LINE † RUNOUT ⊕ TRUE POSITION ◎ CONCENTRICITY = SYMMETRY	UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS: INCH $\begin{matrix} X & XX & XXX & XXXX \\ \pm .1 & \pm .02 & \pm .005 & \pm .0005 \end{matrix}$ mm $\begin{matrix} \pm 0.5 & \pm 0.13 & \pm 0.013 \end{matrix}$ ANG. $\pm .50$ DEG REMOVE BURRS & BREAK SHARP EDGES: INCH .003-.015 mm 0.1-0.4 CORNER FILLETS TO: INCH .020 mm 0.5 MACHINE SURFACES: INCH $\sqrt{125}$ mm $\sqrt{3.2}$	DR BY:	J.HESS	09-27-2013	REGAL-BELOIT CORPORATION					
		APPD:	T.RILEY	09-27-2013		DESCRIPTION	PROCESS SPEC LABEL LOCATION INSTRUCTIONS			
		THIRD ANGLE PROJECTION		EDS DATE	FORMAT REV	H	SIZE	A	DWG NO	PS0928
		CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF REGAL-BELOIT CORPORATION AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF REGAL-BELOIT CORPORATION. -ALL RIGHTS RESERVED.				SCALE	NONE	SHEET	1	

ASME Y14.5M 1994

METRIC DIMS. SHOWN IN [BRACKETS]

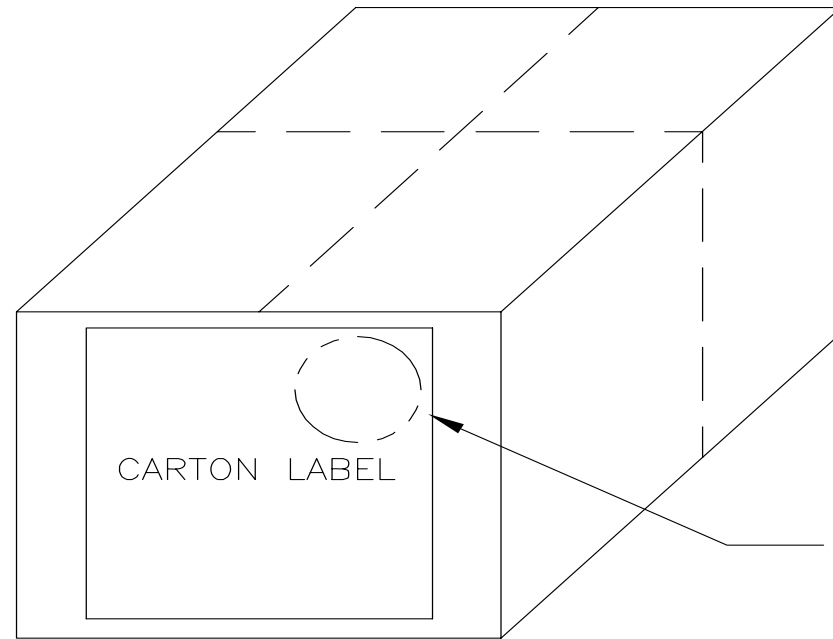


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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
B	0039625	G. RODRIGUEZ	10-25-2013	TERESITA REYES	10-25-2013

APLICAR CUALQUIERA DE LAS ETIQUETAS QUE FIGURAN A CONTINUACION EN CASO DE QUE CORRESPONDAN. VER LISTA DE MATERIALES PARA SU USO.

- 2515052-001
- 2515054-001
- 2515055-001
- 2515058-001
- 2515058-002
- 2515058-003
- 2515058-004
- 2517563-001



APLICAR ETIQUETA CUANDO SEA APLICABLE

NOTAS:

1. COLOCAR ETIQUETA EN LA PARTE SUPERIOR DERECHA DE LA ESQUINA DEL CARTON

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS ▽ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ⌀ CILINDRICIDAD ⌒ PERFIL DE CUALQUIER SUPERFICIE ⌒ PERFIL DE CUALQUIER LINEA ↗ VARIACION ⊕ POSICION REAL ⊙ CONCENTRICIDAD = SIMETRIA

A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS; SON LAS SIGUIENTES: PULG $\pm .1$ $\pm .02$ $\pm .005$ $\pm .0005$ mm ± 0.5 ± 0.13 ± 0.013 ANG. $\pm .50$ GRADOS ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE. PULG $.003-.015$ mm $0.1-0.4$ FILETEAR ESQUINA: PULG $.020$ mm 0.5 MAQUINAR SUPERFICIES PULG 125 mm 3.2 DIMS METRICAS MOSTRADAS [PARENTESIS]
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DIBUJADO POR: J.HESS	09-27-2013
APROBADO POR: T.RILEY	09-27-2013
TERCER ANGULO DE PROYECCION	FECHA EDS: REV. FORMATO: H
CONFIDENCIAL: ESTE DIBUJO Y SU INFORMACION SON PROPIEDAD DE USO EXCLUSIVO Y CONFIDENCIAL DE REGAL-BELOIT CORPORATION Y NO DEBERAN SER REVELADOS, DUPLICADOS, DISTRIBUIDOS O USARSE DE OTRA MANERA SIN EL CONSENTIMIENTO ESCRITO DE REGAL-BELOIT CORPORATION.-TODOS LOS DERECHOS RESERVADOS.	

REGAL-BELOIT CORPORATION	
DESCRIPCION:	
PROCESS SPEC LABEL LOCATION INSTRUCTIONS	
TAMAÑO: A	NUMERO DE DIBUJO: PS0928
ESCALA: NONE	HOJA: 1