

PRODUCT INFORMATION PACKET



Model No: 056T11O5304

Catalog No: 056T11O5304

Condenser Fan Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1200 & 1000 RPM,
56Y Frame, OPAO



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Nameplate Specifications

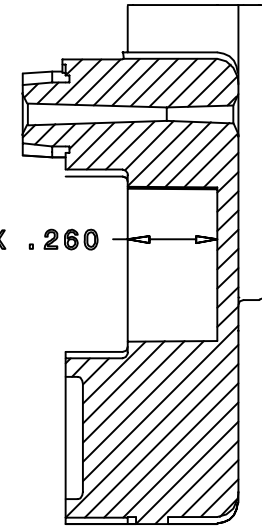
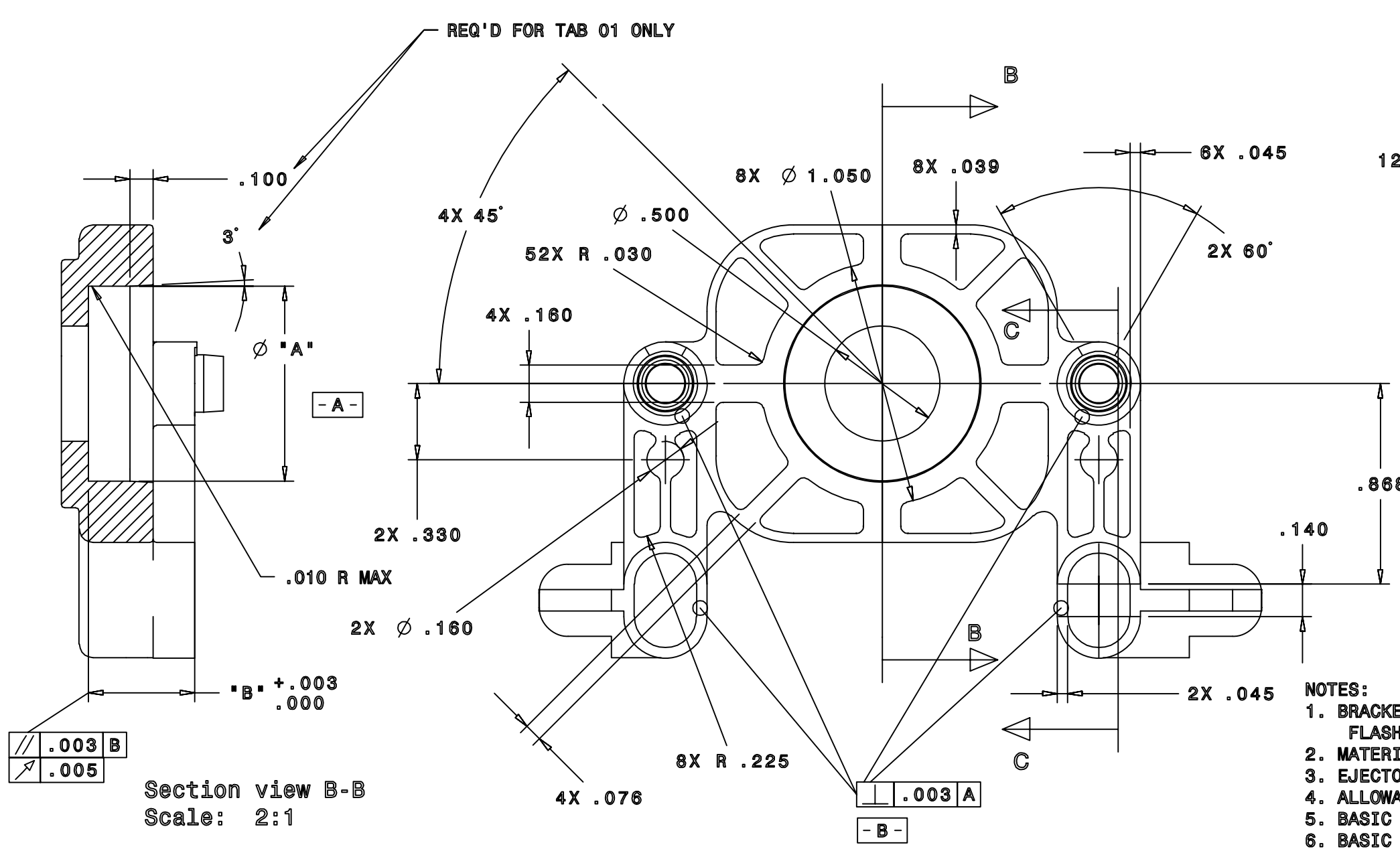
Phase	3	Output HP	2 & 1.50 Hp
Output KW	1.5 & 1.1 kW	Voltage	208-230/460 & 190/380 V
Speed	1140 & 950 rpm	Service Factor	1.0 & 1.0
Frame	56Y	Enclosure	Open Air Over
Thermal Protection	Automatic	Efficiency	81.5 & 79 %
Ambient Temperature	70 °C	Frequency	60 & 50 Hz
Current	7.2-6.8/3.4 & 6.6/3.3 A	Power Factor	67
Duty	Continuous	Insulation Class	H
Design Code	NO DESIGN CODE	KVA Code	J
Drive End Bearing Size	6203	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	N	IP Code	10
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	9 Ohms	Mounting	Round Belly Band
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	17.06 in
Frame Length	9.56 in	Shaft Diameter	0.625 in
Shaft Extension	5.06 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	A-100327-956	Connection Drawing	A-102007-1

4 3 2 1

REV	ECO	REV BY	DATE	APPD	DATE
E	0024420	A.NAJERA	02-18-2012	D.BALDERRAMA	02-18-2012



Section view C-C
Scale: 2:1

∥ .003 B
↗ .005

Section view B-B
Scale: 2:1

TAB	A	B
-01	.845/.846	.460
-02	.824/.822	.435

- NOTES:
- BRACKET MUST BE FREE OF ALL METAL CHIPS, FLASH, BURRS, VOIDS AND AIR POCKETS.
 - MATERIAL TO BE ZAMAK 3 OR 7.
 - EJECTOR PINS TO BE FLUSH OR BELOW SURFACE.
 - ALLOWABLE PIN MISMATCH = .002 MAX.
 - BASIC CORNER AND FILLET RADII = .015.
 - BASIC DRAFT EQUALS .50° MAX PER SIDE.

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:

	X	XX	XXX	XXXX
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]

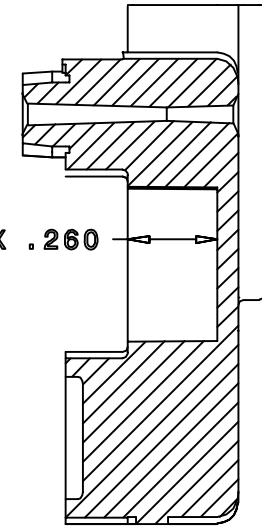
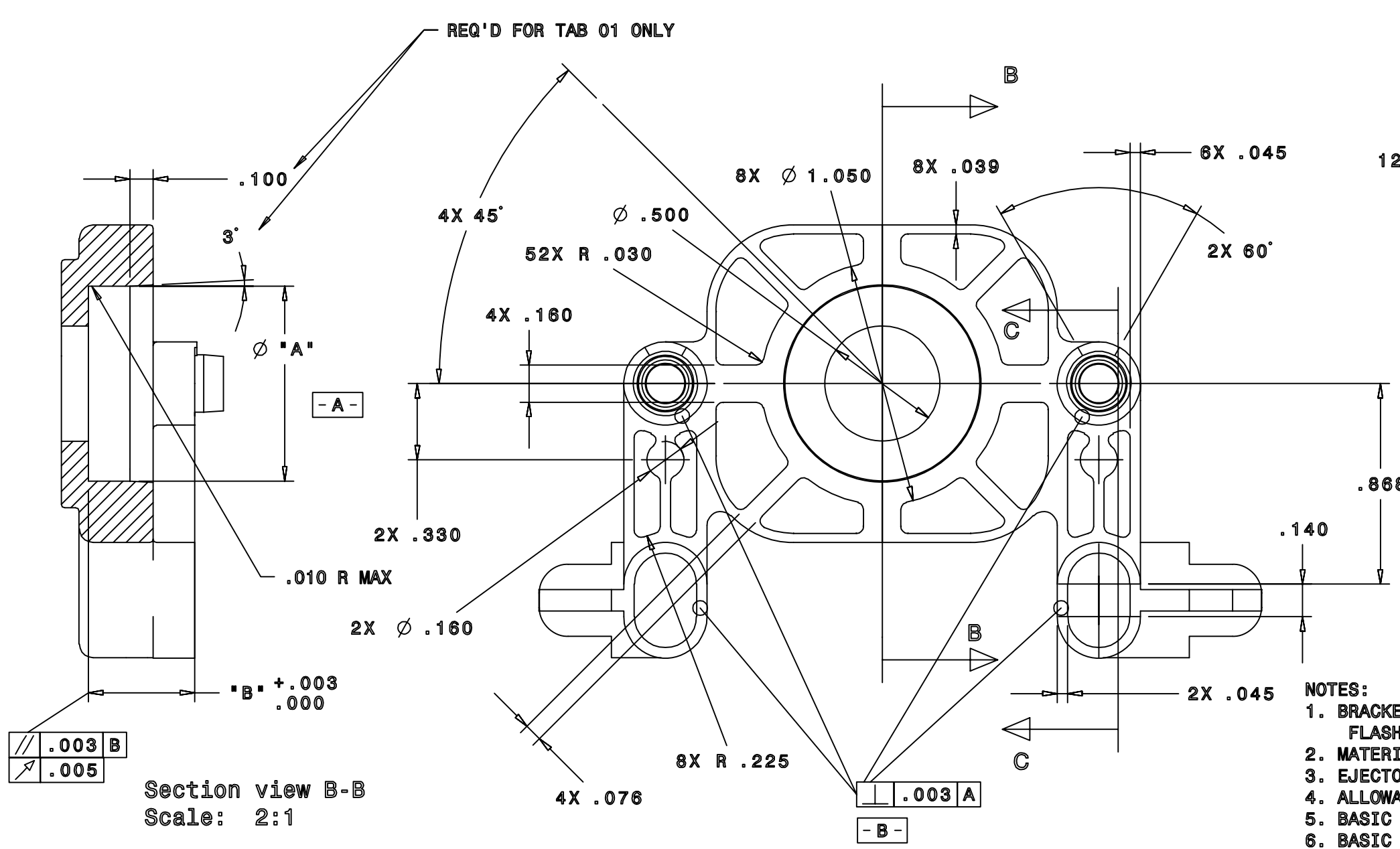
DR BY:	TC	11-15-2002
APPD:	SFW	01-20-2006
THIRD ANGLE PROJECTION	⊕	EDS DATE 11-11-2011 FORMAT REV G
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		REGAL-BELOIT CORPORATION	
DESCRIPTION END FRAME-CAST			
SIZE B	DWG NO 100327		
SCALE NONE			SHEET 1

4 3 2 1

4 3 2 1

REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
E	0024420	A.NAJERA	02-18-2012	D.BALDERRAMA	02-18-2012



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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

ASME Y14.5M 1994

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

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]

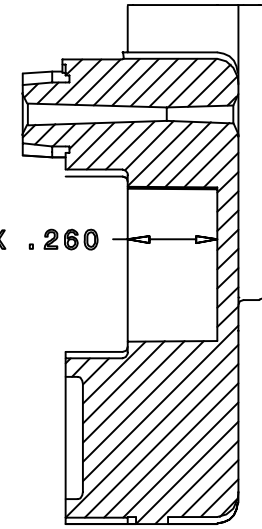
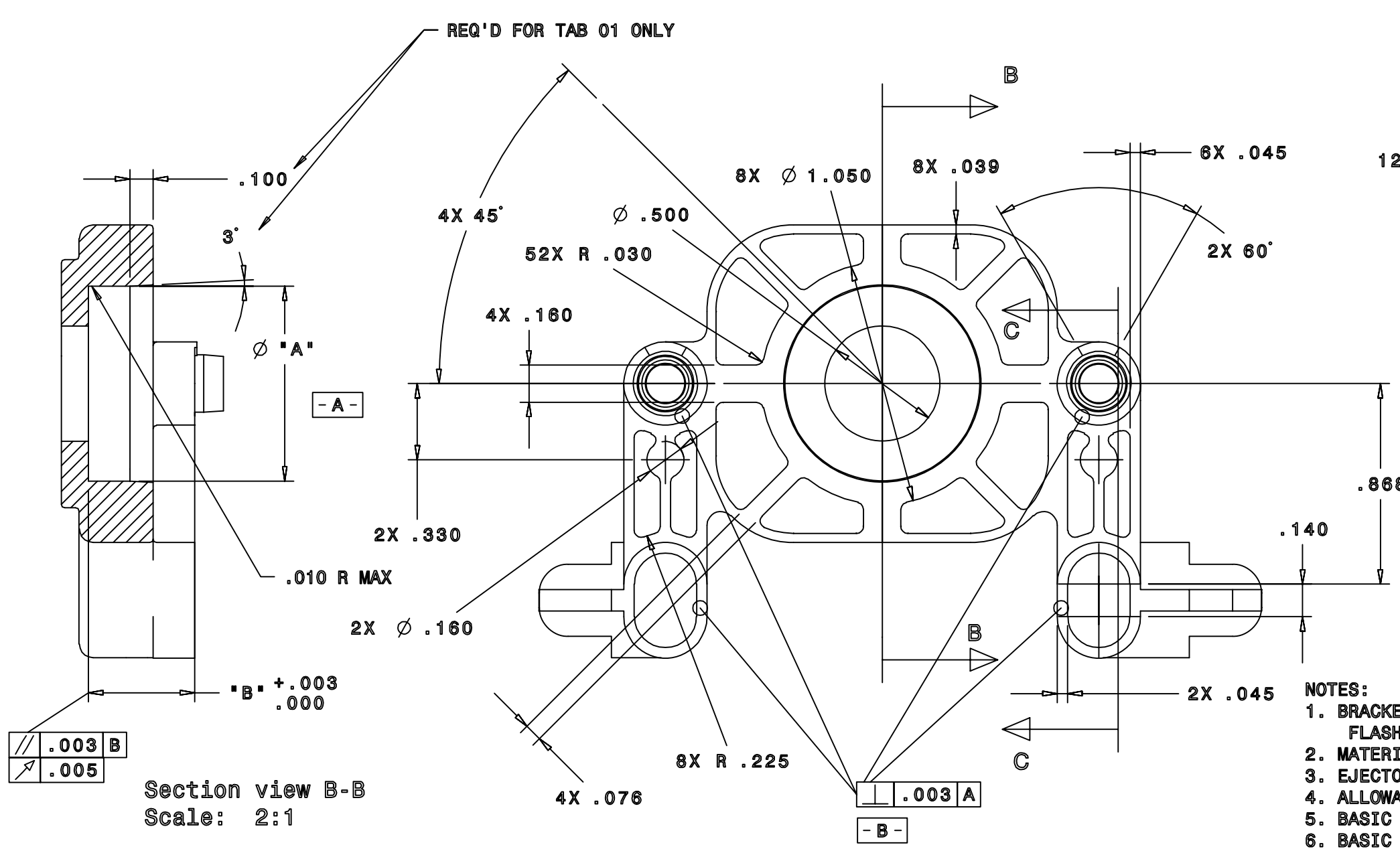
DIBUJADO POR:	TC	11-15-2002
APROBADO POR:	SFW	01-20-2006
TERCER ANGULO DE PROYECCION	⊕	FECHA EDS: 11-11-2011 REV. FORMATO: G
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REGAL-BELOIT CORPORATION	
DESCRIPCION: END FRAME-CAST	
TAMAÑO: B	NUMERO DE DIBUJO: 100327
ESCALA: NONE	HOJA: 1

4 3 2 1

4 3 2 1

版本	ECO	编制	日期	批准	日期
E	0024420	A.NAJERA	02-18-2012	D.BALDERRAMA	02-18-2012



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Section view B-B
Scale: 2:1

⊥	.003	A
□		

- B -

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A

A

形位公差	除另有注明
□ 平面度	尺寸公差如下:
— 直线度	英寸 X XX XXX XXXX
∠ 倾斜度	英寸 ±.1 ±.02 ±.005 ±.0005
⊥ 垂直度	毫米 ±0.5 ±0.13 ±0.013
∥ 平行度	角度 ±.50 度
○ 圆度	清理毛刺和尖棱
⊙ 圆柱度	英寸 .003-.015 毫米 0.1-0.4
△ 面轮廓度	内圆角
∩ 线轮廓度	英寸 .020 毫米 0.5
↗ 圆跳动	表面粗糙度
⊕ 位置度	英制 125 米制 3.2
◎ 同轴度	米制尺寸显示在 []
≡ 对称度	

ASME Y14.5M 1994

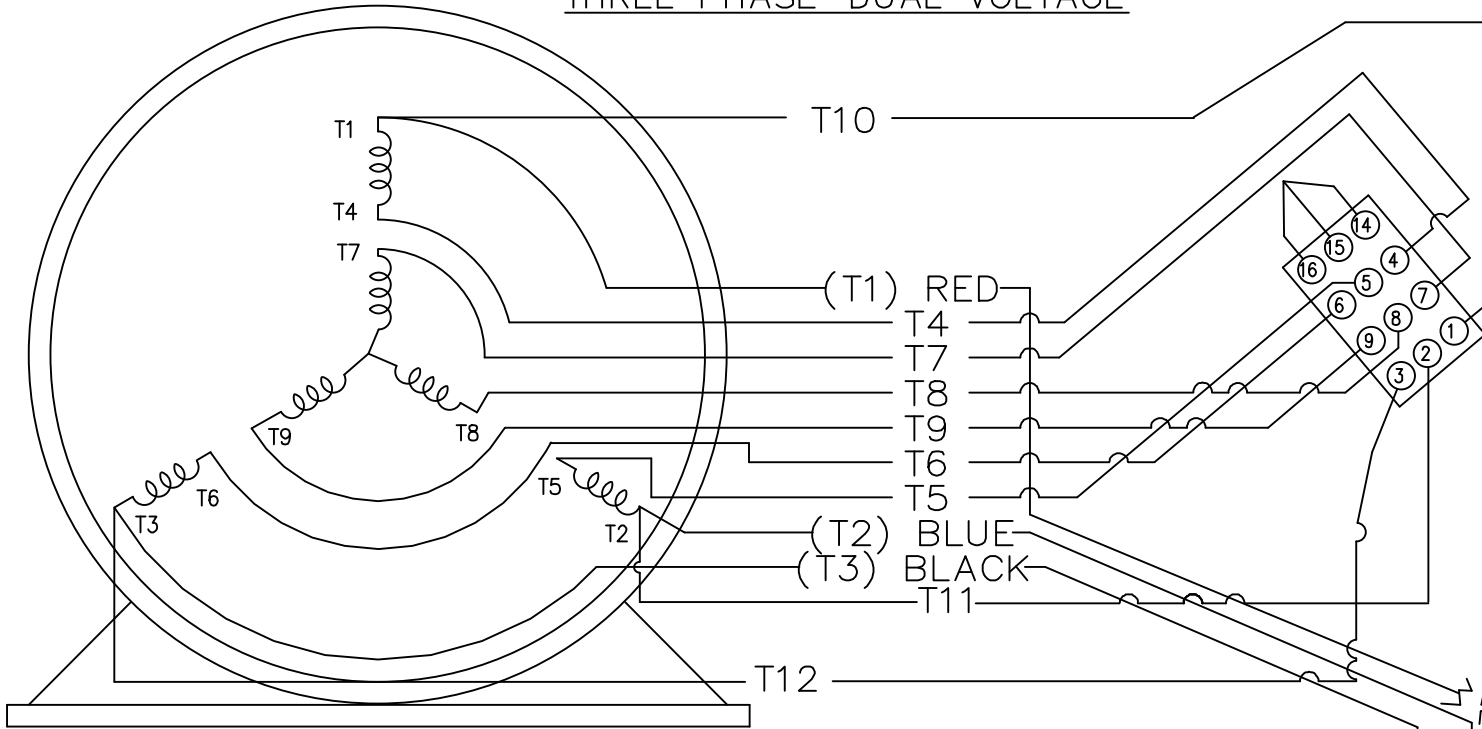
绘图:	TC	11-15-2002
批准:	SFW	01-20-2006
第三角投影	⊕	图纸格式发布日期 11-11-2011
		图纸格式版本 G
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名称	END FRAME-CAST		
图幅	B	图号	100327
比例	NONE	页号	1

4 3 2 1

THREE PHASE-DUAL VOLTAGE

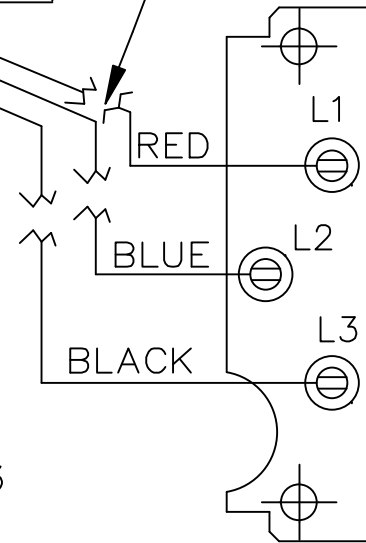


NUMBERS SHOWN ON TERM BOARD ARE FOR REF. ONLY. NUMBERS DO NOT APPEAR ON PARTS.

(VIEWING BOTTOM OF VCD)

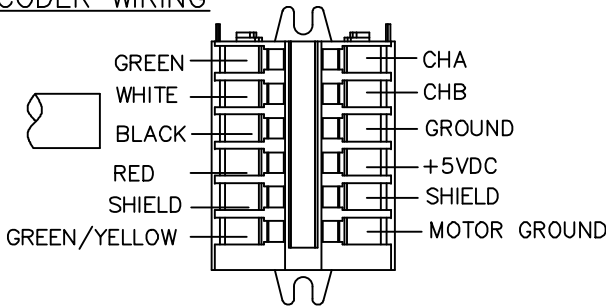
CONNECT RESPECTIVE LEADS USING 79944-3 AND 79944-1 TERMS (3 PLACES)

VIEW OF TERMINAL END

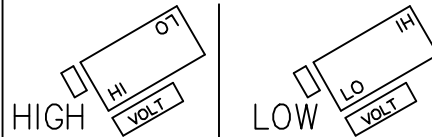


VIEWING BOTTOM OF TERMINAL BOARD

ENCODER WIRING



TO CHANGE VOLTAGE, PULL PLUG, ROTATE 180° AND REINSERT



CONNECT LINES TO L1, L2 & L3

				TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT <i>Motor Technologies Group</i>	DRAWN UD 04/24/2012			
				DEC.	INCHES		CHK	AP	04/24/2012	
				.X	± -	TITLE CONNECTION DIAGRAM 3 φ - DUAL VOLTAGE MOTOR	APPD	RD	04/24/2012	
				.XX	± -		SCALE	1=1		
2	ADDED NOTE FOR CONNECTING TERM BOARD LEADS	AP 08/09/2012		.XXX	± -		REF	102007-2		
1	ADDED ENCODER WIRING & GROUND LEAD	UD 07/12/12	AP	.XXXX	± -		FMF	MU107755		
NO.	REVISION	BY & DATE	CHK	ANG	± -		PREV			
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP		CAD FILE 102007-16	SIZE	DRAWING NO.	PAGE OF	REV.
				DIST	WP		A	102007-16		1

CERTIFICATION DATA SHEET

Model#: 56T1105304 H WINDING#: ZT600 R1 3
 CONN. DIAGRAM: A-102007-1 ASSEMBLY: F1 ONLY
 OUTLINE: A-100327-956

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2&1 1/2	1.49&1.12	1200	1140&950	56Y	OPAO	J	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208-230/460#190/380	7.2-6.8/3.4&6.6/3.3	ACROSS THE LINE	CONTINUOUS	H1	1.0/1.0	70	3300

FULL LOAD EFF: 81.5&79	3/4 LOAD EFF: 79	1/2 LOAD EFF: 77.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 67&63.8	3/4 LOAD PF: 58	1/2 LOAD PF: 45	78.5	SQ CAGE IND RUN	4.8 / 2.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9.1 LB-FT	39.6 / 19.8	25.6 LB-FT 281	29.5 LB-FT 324	999

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.14 LB-FT^2	35 LB-FT^2	15 SEC.	2	48 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	ROUND BELLY BAND	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	DC 44M	SGL SPL EXT	0.625 x 5.00 IN SEF WITH 4.00 IN FULL FLAT	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6203	6203						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUT LCK RTR ONLY	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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

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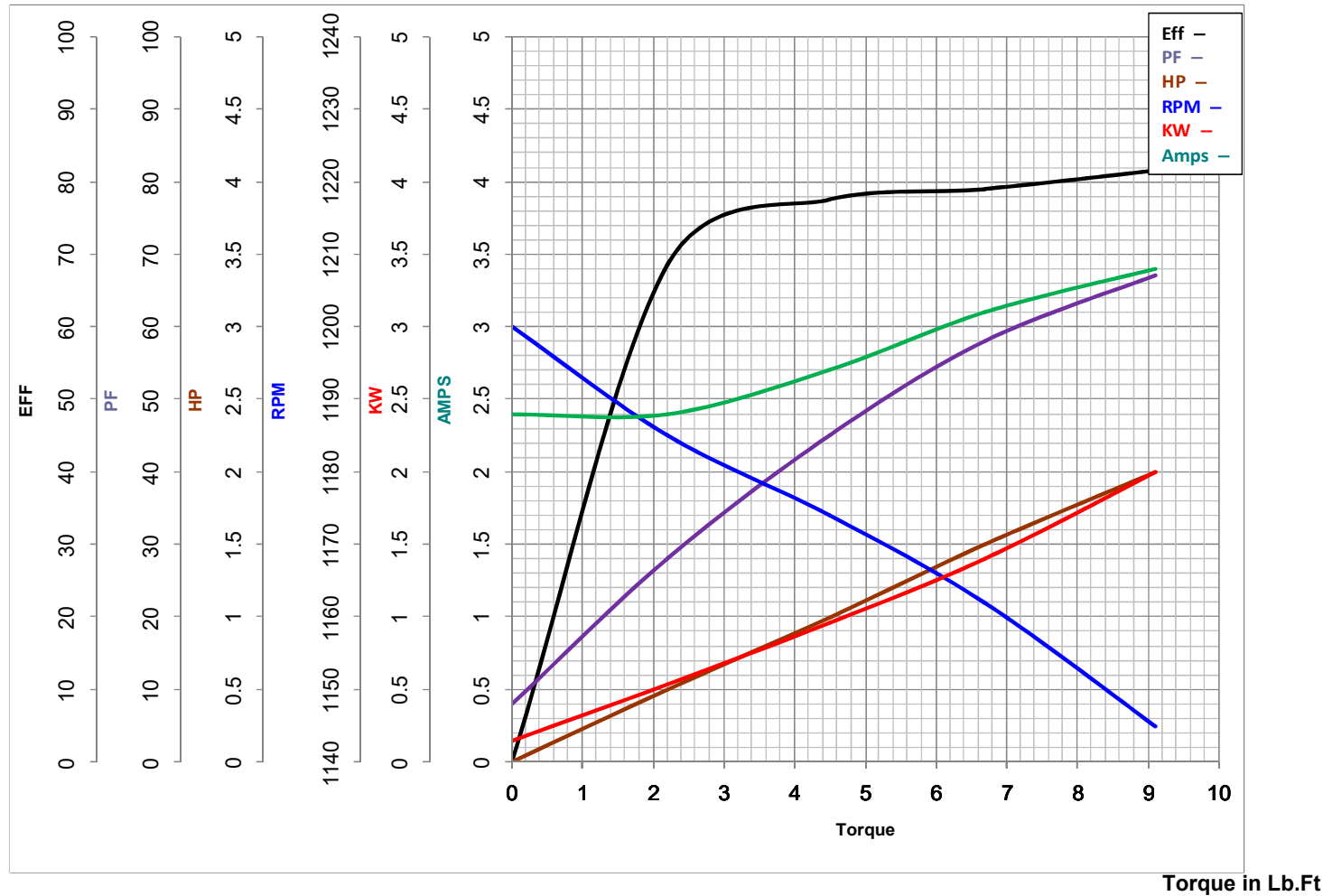
FORM 3531 REV.3 02/07/99

** Subject to change without notice.



MARATHON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer _____ Curve at 460 Volts HP 2&1.5 PHASE 3
 Model No 56T1105304 60 HZ
2 HP VOLTS 208-230/460&190/380
 Catalog No X509 HZ 60&50 RPM 1140&950



FL TORQUE	<u>9.1</u>	Lb.Ft	FL AMPS	<u>7.2-6.8/3.4</u>
BD TORQUE	<u>29.5</u>	Lb.Ft	PU TORQUE	<u>26.0</u> Lb.Ft
LR TORQUE	<u>25.6</u>	Lb.Ft	LR AMPS	<u>19.8</u>
WINDING	ZT600-3		Date	1/23/2019