

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 284TTDR16047

Catalog No: E1006

XRI® General Purpose General Purpose Motor, 25 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 284T Frame, DP



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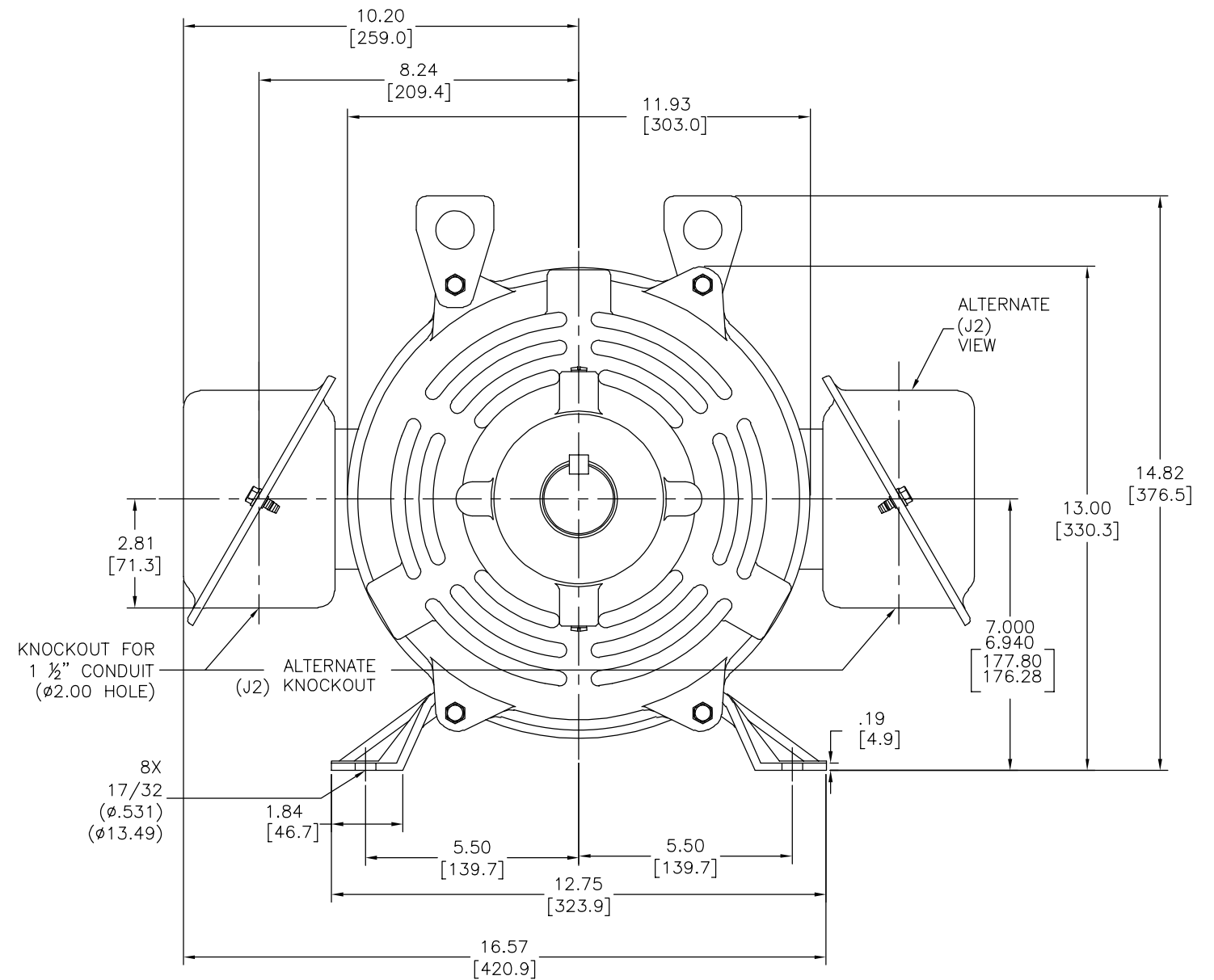
RegalRexnord

Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	61.0/30.5 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	93.6 %	Power Factor	82.3
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	284T	Enclosure	Drip Proof
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6207
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	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	24.22 in
Shaft Diameter	1.875 in	Shaft Extension	4.62 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	18720601-001-S01	Connection Drawing	80022801



- NOTES:
1. CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
 2. MOTOR IS SUITABLE FOR FIELD CONVERSION FROM AN F1 TO AN F2 CONDUIT BOX LOCATION.
 3. MOTOR VENTILATION: AIR INTAKE THROUGH OPENINGS IN THE FACE OF EACH BRACKET AND EXHAUSTED THROUGH THE VENT SLOTS ON EACH END OF THE SHELL.

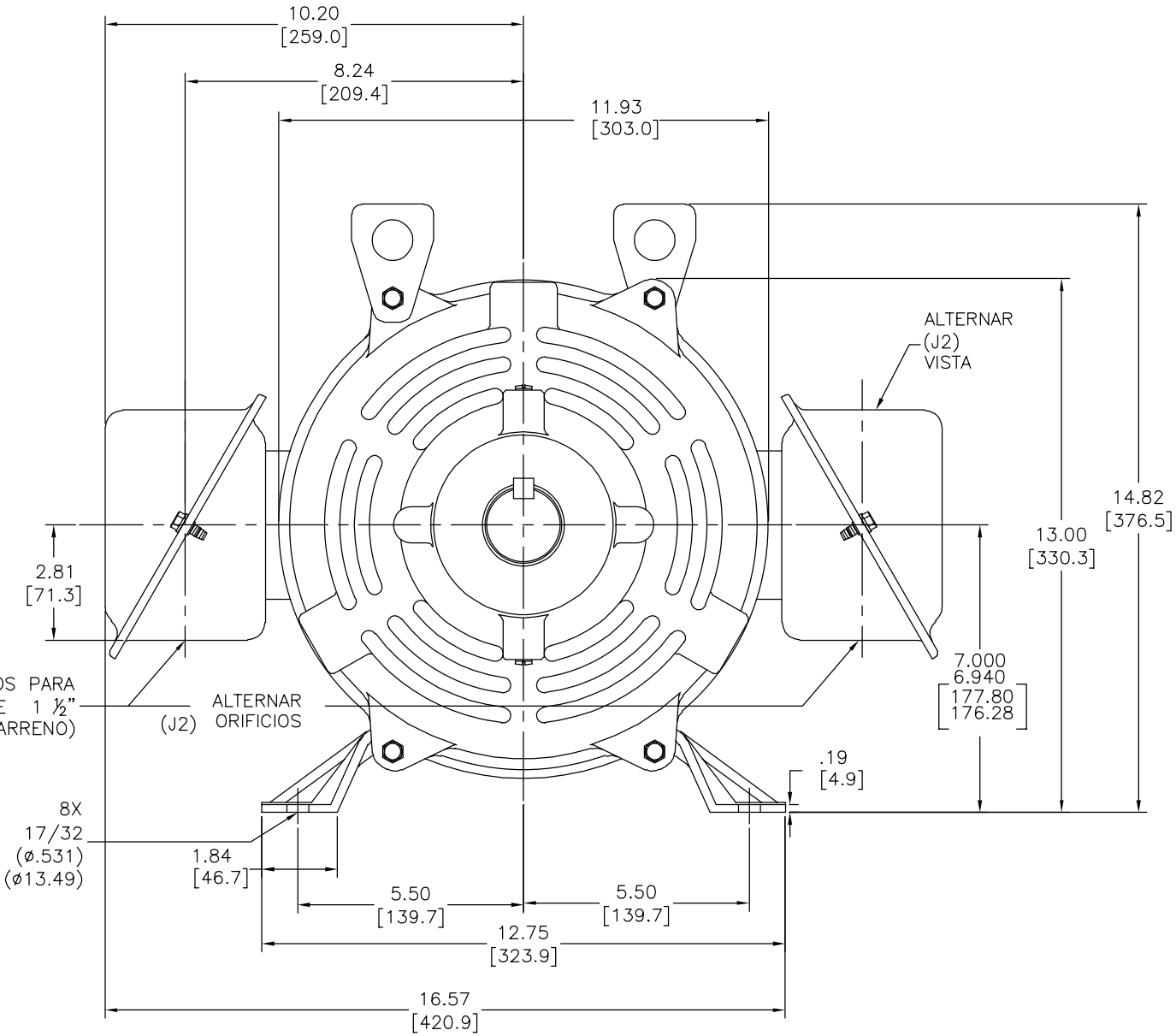
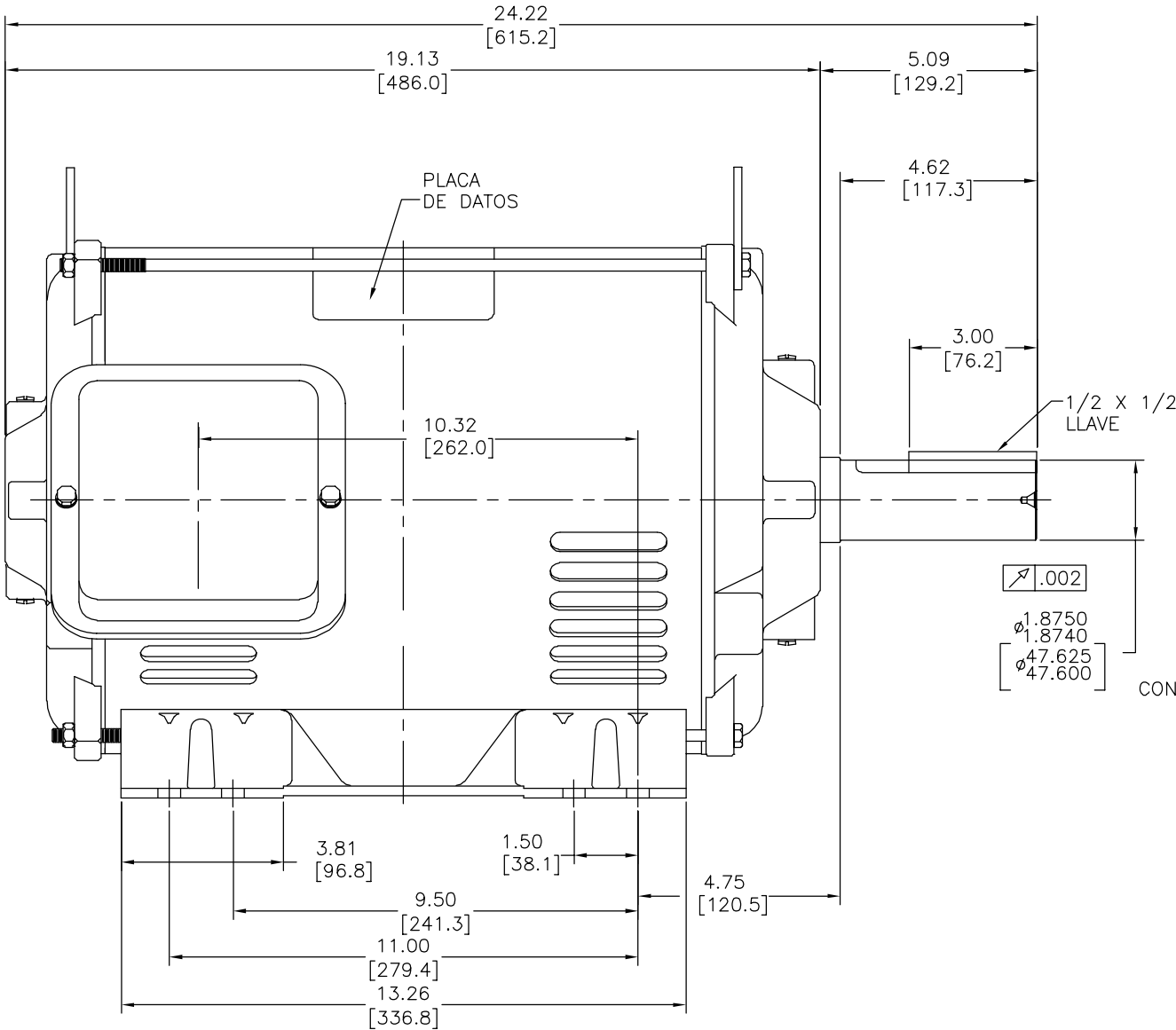
MOTOR DESCRIPTION:

3 PHASE OPEN DRIPPROOF STEEL SHELL 284T OR 286T MOUNTING.
OTHER MOUNTING ORIENTATIONS ARE ACCEPTABLE; HOWEVER WHEN MOUNTED OTHER
THAN HORIZONTAL; MOTOR WILL NOT BE DRIPPROOF AS DEFINED BY NEMA.

CERTIFICATION OF A.C. MOTORS		
CERTIFIED FOR _____		
SPEC. NO. _____	ORDER NO. _____	
ORDER I.D. _____	I.D. NO. _____	EMI EMI
TYPE _____	FRAME _____	H.P. _____
R.P.M. _____	VOLTS _____	PHASE _____
HERTZ _____	AMPS _____	CODE _____
REMARKS _____		
APPROVED BY _____		DATE: _____

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: FIN. $\pm .01$ $\pm .02$ $\pm .005$ $\pm .0005$ mm ± 0.5 ± 0.13 ± 0.013 ANG. ± 50 DEG REMOVE BURRS & BREAK SHARP EDGES: INCH .003-.15 mm 0.1-.04 CORNER FILLETS TO: INCH .020 mm 0.5 MACHINE SURFACES: INCH 125 mm 3.2	DR BY: AJB APPD: JAS	01-14-2004 01-14-2004	EDS DATE 11-11-2011 FORMAT REV G	 REGAL-BELOIT CORPORATION DESCRIPTION OUTLINE S284T/S286T ODP EE STD SIZE D DWG NO 18720601-001
ASME Y14.5M, 1994	METRIC DIMS. SHOWN IN [BRACKETS]	ALL RIGHTS RESERVED		SCALE NONE	SHEET 1

REVISION:	ECO	REVISADO POR:	T.HUANG	FECHA:	04-18-2012	APROBADO POR:	B.C.SHEN	FECHA:	04-18-2012
C	ECO-0025427								



NOTAS:

- CAJA DE CONDUCTORES PUEDER ROTARSE EN INCREMENTOS DE 90°
- EL MOTOR ES EL ADECUADO PARA CONVERSION DE CAMPOS DESDE LA UBICACION AN F1 Y AN F2
- VENTILACION DE MOTOR: LA ENTRADA DE AIRE ES A TRAVEZ DE LOS ORIFICIOS EN LA CARA DE CADA TAPA Y EXTRAIDA A TRAVEZ DE LAS RANURAS DE VENTILACION AL FINAL DE CADA CARCAZA

DESCRIPCION DEL MOTOR:

ESCUDO 284T DE ACERO A PRUEBA DE GOTEO CON 3 FASES ABIERTAS. OTRO TIPO DE OPERACIONES DE MONTAGE ES ACEPTABLE; SIN EMBARGO CUANDO SEA MONTADO DE CUALQUIER OTRA FORMA MENOS HORIZONTALMENTE NO SERA A PRUEBA DE GOTEO COMO NEMA LO DEFINE.

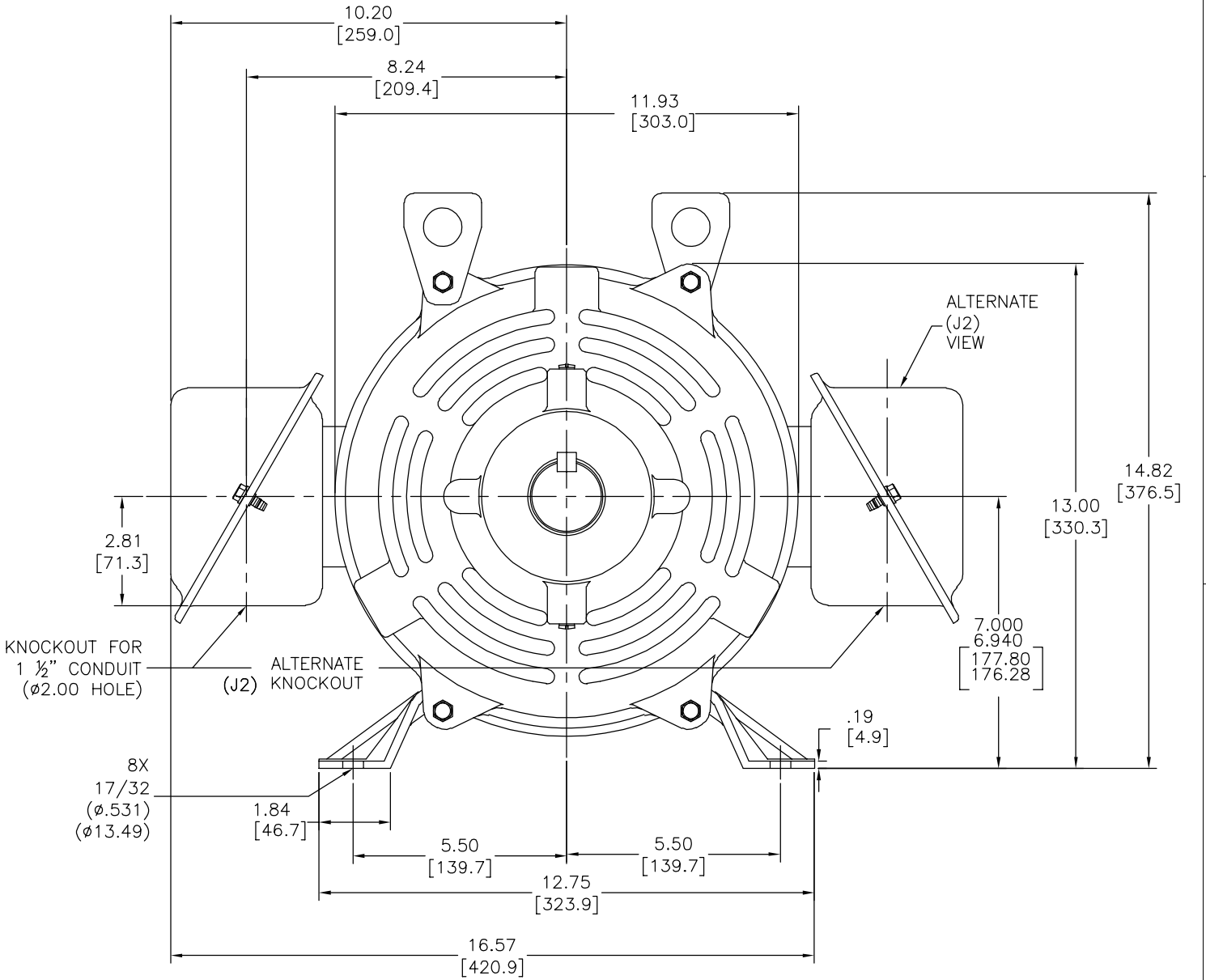
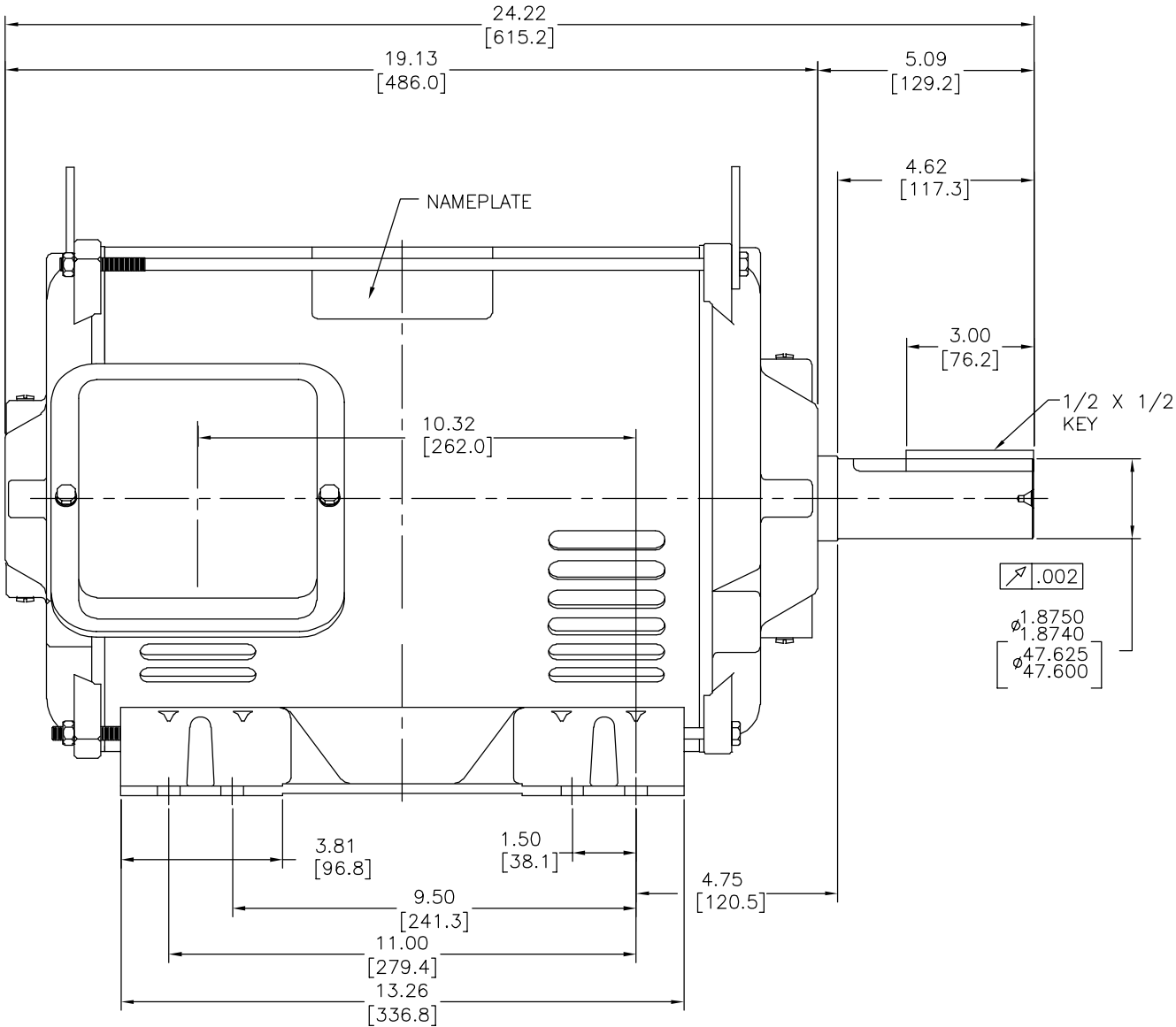
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REMARKS _____		
APPROVED BY _____ DATE: _____		

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS: / PLANICIDAD - RECTITUD / ANGULARIDAD L PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO O REDONDEZ (CIRCULARIDAD) H 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	DIMENSIONES METRICAS MOSTRADAS [PARENTESIS]
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DIBUJADO POR:	AJB	01-14-2004
APROBADO POR:	JAS	01-14-2004
TERCER ANGULO DE PROYECCION		FECHA EDS: 11-11-2011 REV. FORMATO: G
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.		

DESCRIPCION:		OUTLINE	
S284T/S286T ODP EE STD		NUMERO DE DIBUJO:	
D		18720601-001	
ESCALA:	NONE	HOJA:	1

版本	ECO	编制	日期	批准	日期
C	ECO-0025427	T.HUANG	04-18-2012	B.C.SHEN	04-18-2012



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TYPE _____	FRAME _____	H.P. _____
R.P.M. _____	VOLTS _____	PHASE _____
HERTZ _____	AMPS _____	CODE _____
REMARKS _____		
APPROVED BY _____ DATE: _____		

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:	AJB	01-14-2004
批准:	JAS	01-14-2004
第三角投影		图底格式发布日期 11-11-2011
机密: 本图纸及相关信息所有版权归REGAL-BELOIT CORPORATION		图底格式版本 G
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名称		OUTLINE	
S284T/S286T ODP EE STD		图号	
D		18720601-001	
比例	NONE	页号	1

CERTIFICATION DATA SHEET

Model#: 284TTDR16047 AA
 CONN. DIAGRAM: 80022801
 OUTLINE: 18720601-001

WINDING#: BIR4T01 NONE 3
 ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&25	18.7&18.7	1800	1765&1450	284T	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/ 400	61/30.5&70/35	ACROSS THE LINE	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 93.6&92.4	3/4 LOAD EFF: 93.8	1/2 LOAD EFF: 94.1	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82.3&83	3/4 LOAD PF: 80.4	1/2 LOAD PF: 70.2	92.4	SQ CAGE IND RUN	21 / 10.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74.4 LB-FT	340 / 170	132 LB-FT 177	178 LB-FT 239	41

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
69 dBA	79 dBA	0 LB-FT^2	0 LB-FT^2	20 SEC.	0	0 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 (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6311	6207						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE
	NONE NONE NONE NONE PPR
* N O T E S *	BRAKE: NONE NONE
	NONE P/N NONE
	NONE NONE
	NONE FT-LB NONE V NONE Hz

DATE: 06/27/2017 12:53:48 AM
 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 25&25

 PHASE 3

 Model No 284TTDR16047
60

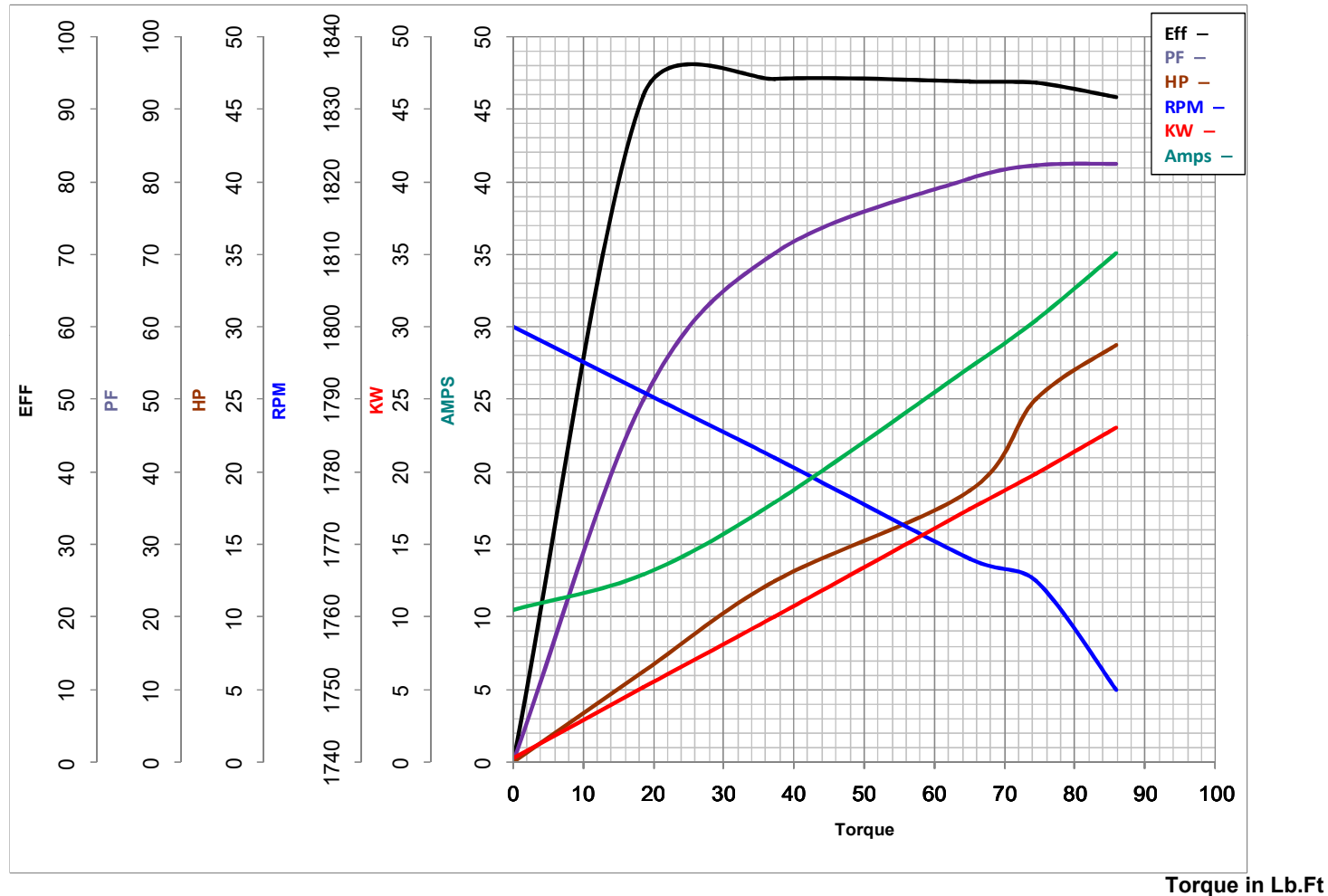
HZ

 VOLTS 230/460&200/400
25

HP

 Catalog No E1006

 HZ 60&50

 RPM 1765&1450


Torque in Lb.Ft

 FL TORQUE 74.4 Lb.Ft

 BD TORQUE 178.0 Lb.Ft

 LR TORQUE 132 Lb.Ft

WINDING BIR4T01-3

 FL AMPS 61/30.5

 PU TORQUE 118.8 Lb.Ft

 LR AMPS 170

Date 1/17/2019