

PRODUCT INFORMATION PACKET

Model No: 256TTDX16078

Catalog No: E734A

XRI® General Purpose General Purpose Motor, 10 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,
1200 & 1000 RPM, 256T Frame, DP



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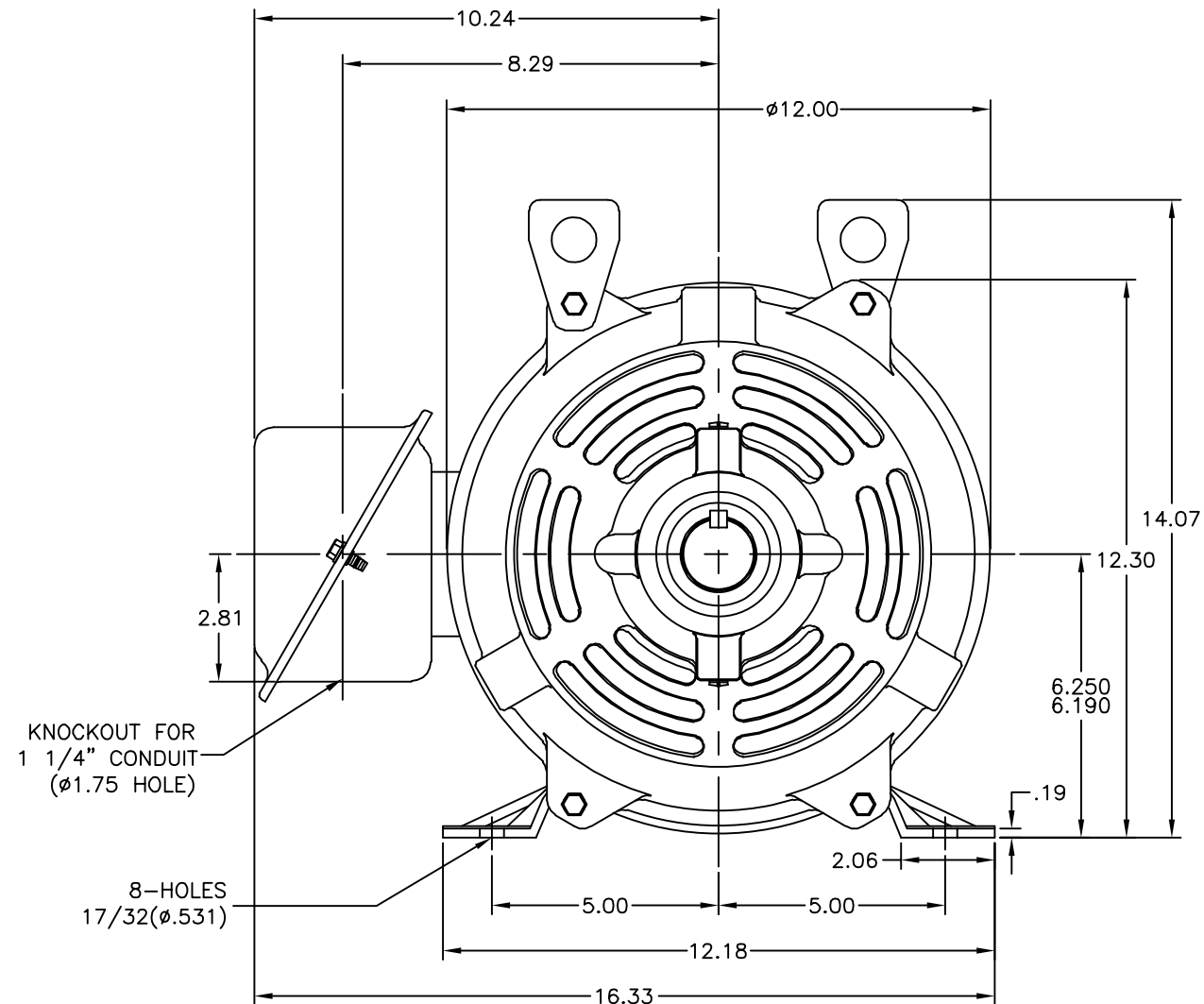
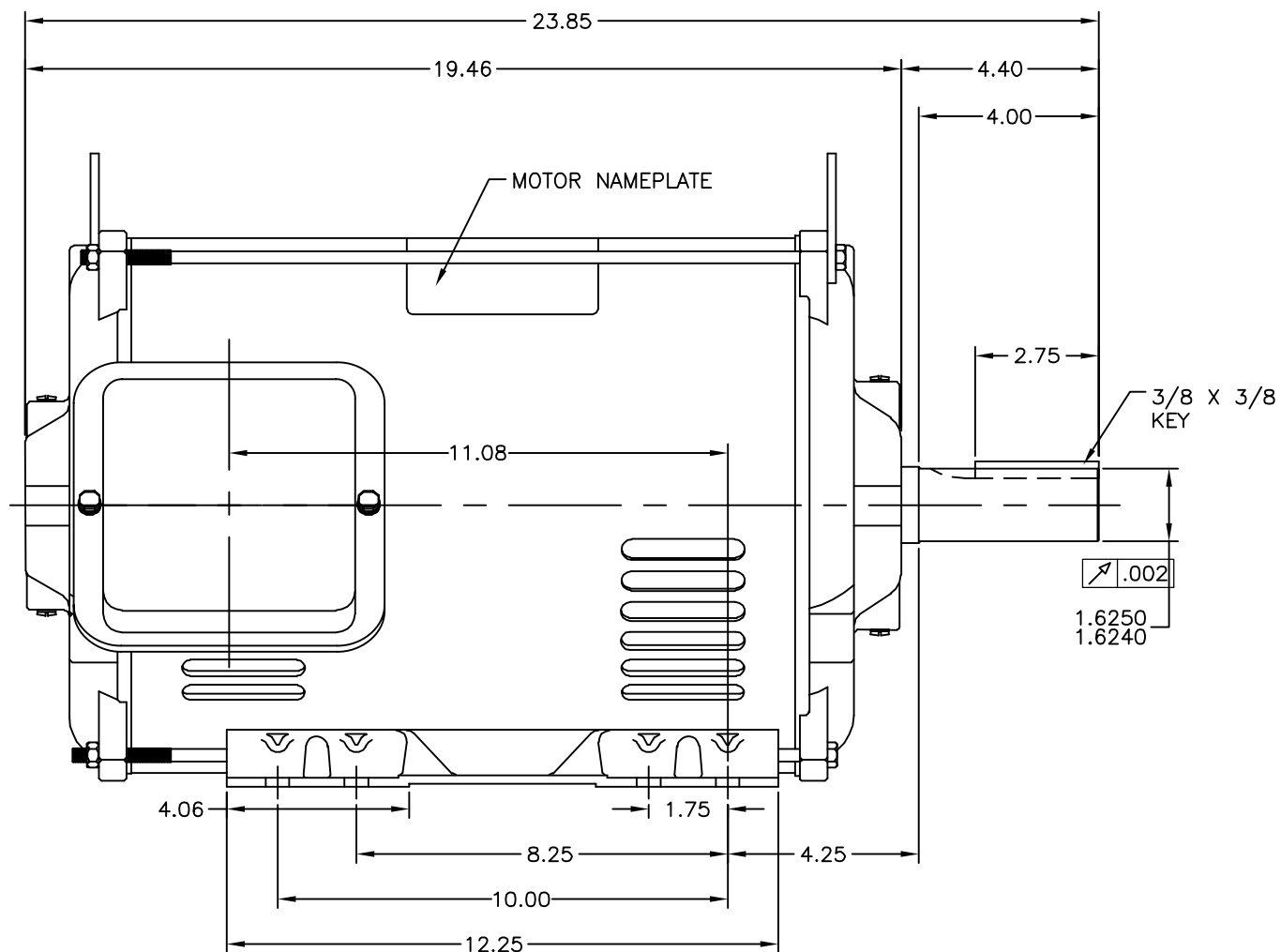
Nameplate Specifications

Phase	3	Output HP	10 & 10 Hp
Output KW	7.5 & 7.5 kW	Voltage	230/460 & 200/400 V
Speed	1175 & 975 rpm	Service Factor	1.15 & 1.15
Frame	256T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91.7 & 91 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	27.4/13.7 & 31.4/15.7 A	Power Factor	75.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.634 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	23.90 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	18720401-001-S01	Connection Drawing	80022802

REV	ECO	REV BY	DATE	APPD	DATE
B	0003531	K.PALOMO	01-07-09	C.CONTRERAS	01-07-09



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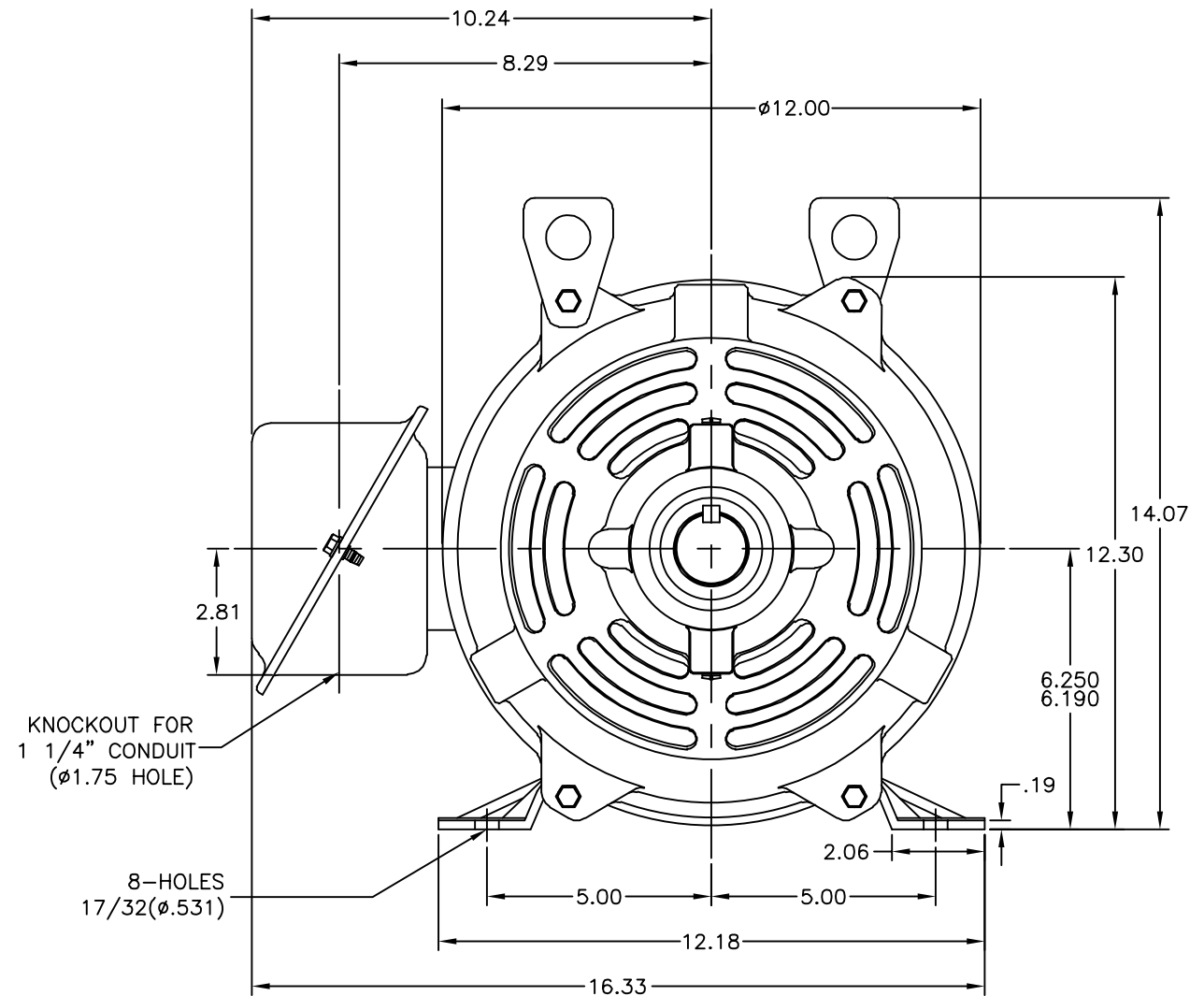
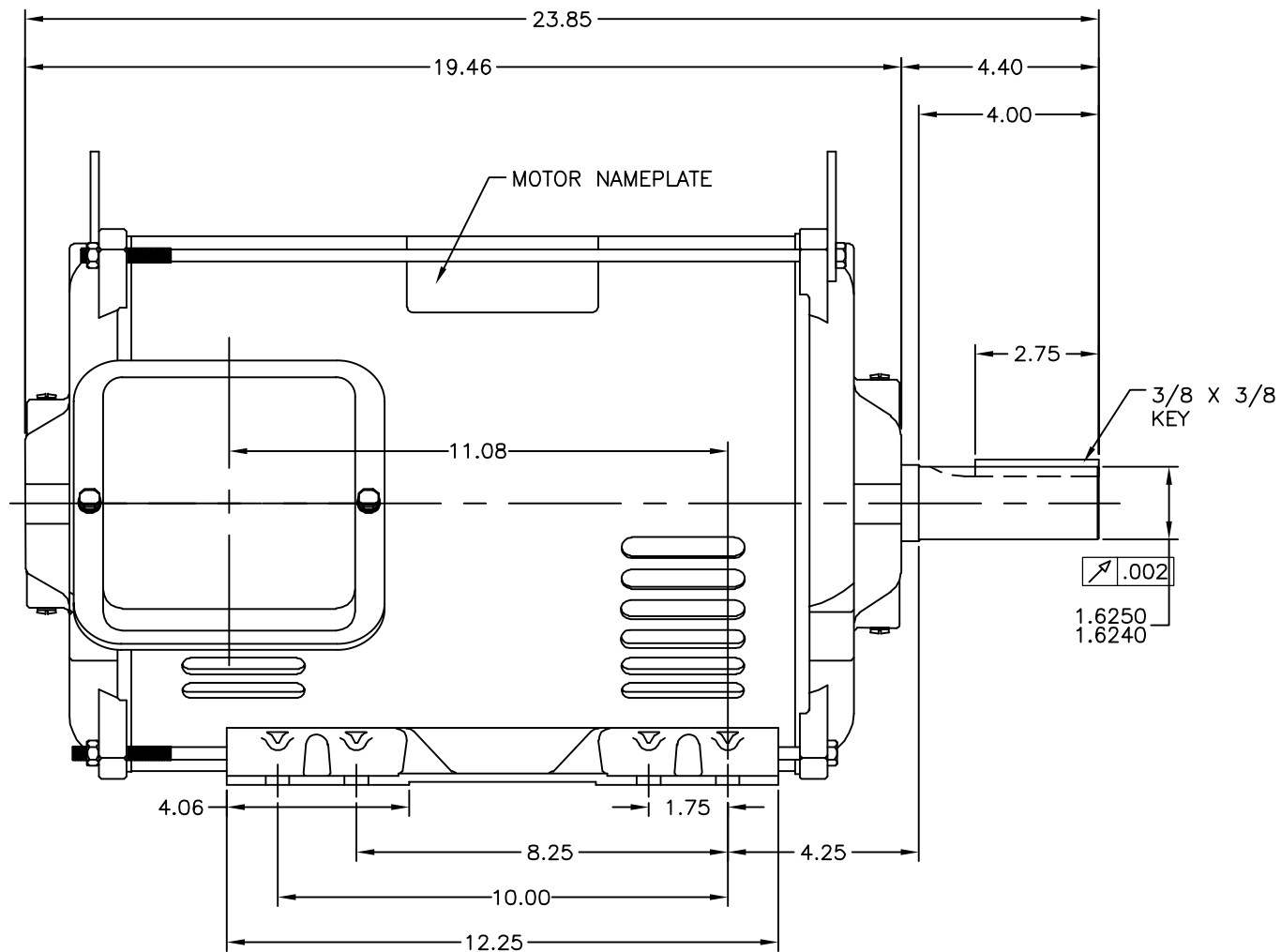
- 1- CONDUIT BOX MAY BE ROTATED IN 90° INCREMENTS.
- 2- MOTOR CAN NOT BE CONVERTED FROM AN F1 TO AN F2 ASSEMBLY.
- 3- MOTOR VENTILATION: AIR INTAKE THROUGH OPENINGS IN THE FACE OF EACH BRACKET AND EXHAUSTED THROUGH THE VENT SLOTS ON EACH END OF THE SHELL.

MOTOR DESCRIPTION:

3 PHASE OPEN DRIPPROOF STEEL SHELL 256T MOUNTING. OTHER MOUNTING ORIENTATIONS ARE ACCEPTABLE; HOWEVER WHEN MOUNTED OTHER THAN HORIZONTAL; MOTOR WILL NOT BE DRIPPROOF AS DEFINED BY NEMA.

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 ± .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: AJB	01-14-04	AC Smith Innovation has a name. ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION
		APPD: DVB	01-14-04	
		THRD ANGLE PROJECTION	EDS DATE EDS DATE FORMAT REV F	SIZE D DWG NO 18720401-001
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REVISION: ECO	REVISADO POR: K.PALOMO	FECHA: 01-07-09	APROBADO POR: C.CONTRERAS	FECHA: 01-07-09
B	0003531			



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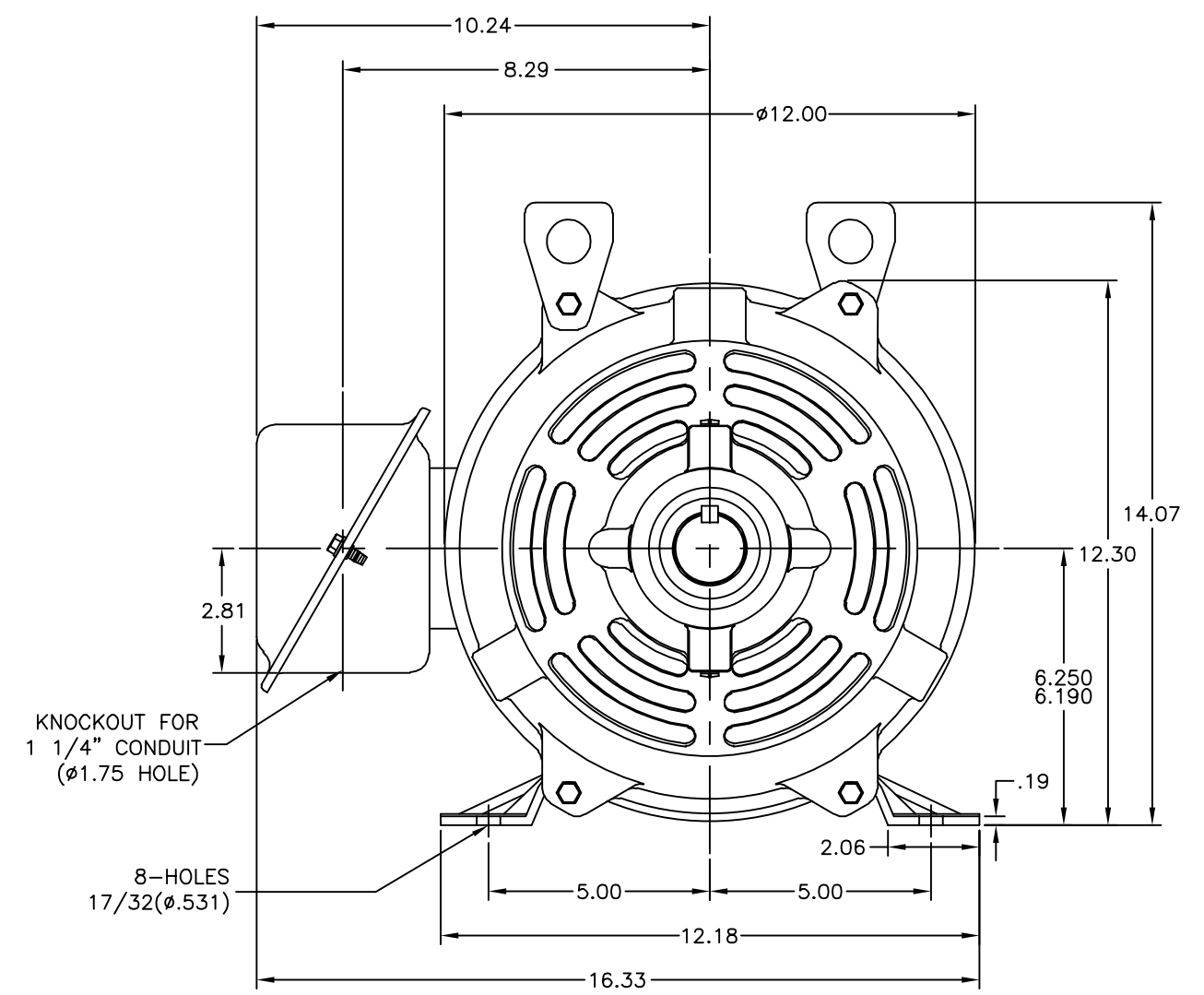
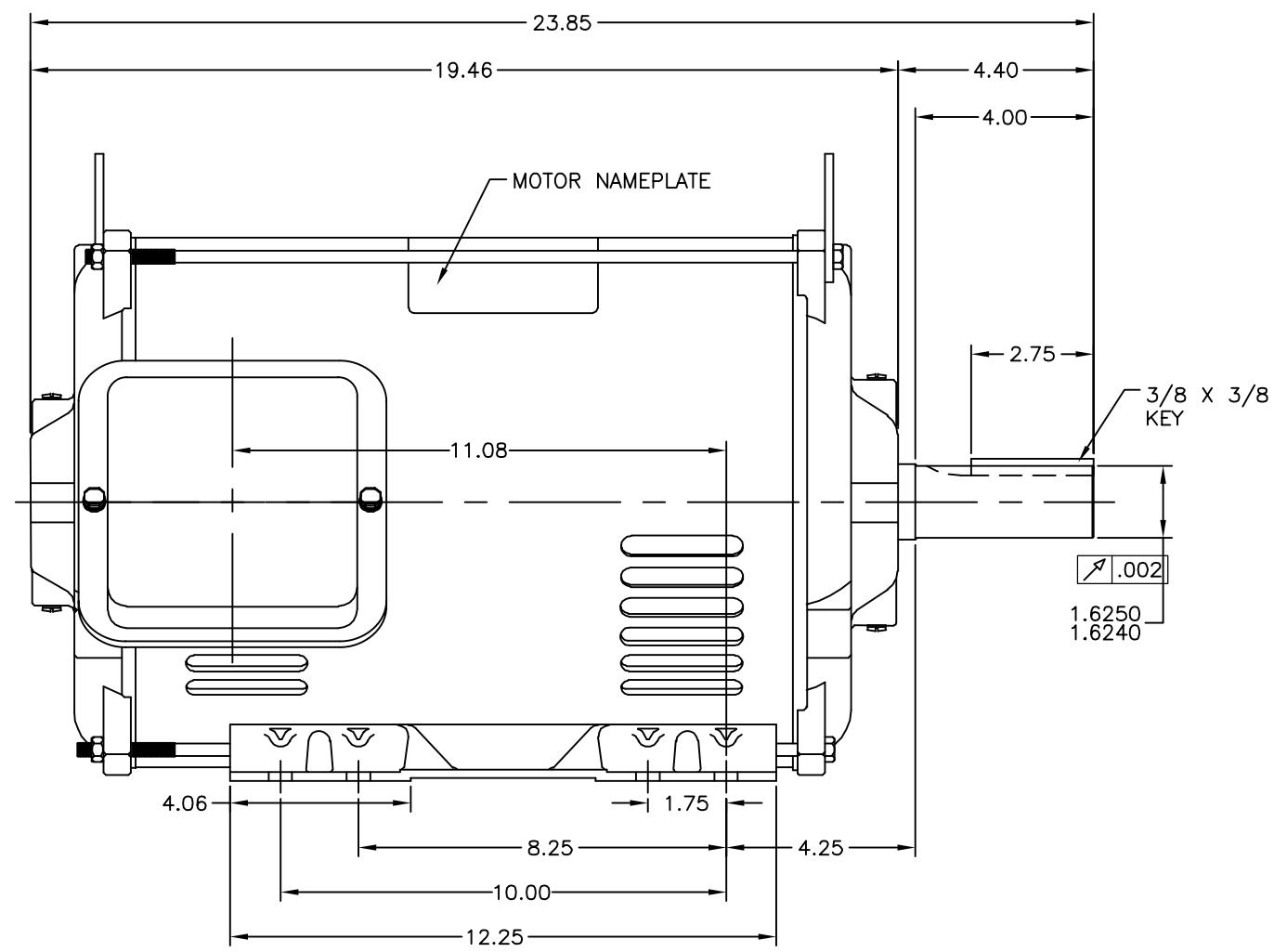
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CARACTERÍSTICAS DE GEOMETRIA Y SIMBOLOS: ▽ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) Ⓢ CILINDRICIDAD ≡ PERFIL DE CUALQUIER SUPERFICIE ⤴ PERFIL DE CUALQUIER LINEA ↗ VARIACION ⊕ POSICION REAL ⊙ CONCENTRICIDAD = SIMETRIA	A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS; SON LAS SIGUIENTES: PULG ±.1 ±.02 ±.005 ±.0005 mm ±0.5 ±0.13 ±0.013 ANG ±.50 GRADOS ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE. FILETEAR ESQUINA: PULG .020 mm 0.5 MAQUINAR SUPERFICIES PULG 125 mm 3.2 DIMS METRICAS MOSTRADAS [PARENTESIS]	DIBUJADO POR: AJB	01-14-04	A.O. SMITH Innovation has a name. ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION
		APROBADO POR: DVB	01-14-04	
		TERCER ANGULO DE PROYECCION	FECHA EDS: EDS DATE REV. FORMATO: F	TAMAÑO: D
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				ESCALA: NONE
				HOJA: 1

版本	ECO	编制	日期	批准	日期
B	0003531	K.PALOMO	01-07-09	C.CONTRERAS	01-07-09



- NOTES:
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形位公差 □ 平面度 ⊥ 垂直度 ∠ 倾斜度 ⊥ 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 []	绘图: AJB 批准: DVB 第三角投影	01-14-04 01-14-04 图框格式发布日期 EDS DATE 图框格式版本 F	名称 OUTLINE 图号 18720401-001 比例 NONE 页号 1
	机密: 本图纸及相关信息所有权利归A. O. SMITH公司所有。 未经A. O. SMITH公司书面授权, 不得泄露、复制、传播或作其他用途。一版权所有			ASME Y14.5M 1994	
				AC Smith Innovation has a name. ELECTRICAL PRODUCTS COMPANY A DIVISION OF A. O. SMITH CORPORATION	
				NONE	

CERTIFICATION DATA SHEET

Model#: 256TTDX16078 AA
CONN. DIAGRAM: 80022802
OUTLINE: 18720401-001

WINDING#: BHR6T01 NONE 3
ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&10	7.50&7.50	1200	1175	256T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/ 400	27.4/13.7&999 9/9999	ACROSS THE LINE	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.2	1/2 LOAD EFF: 91.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 75.5	3/4 LOAD PF: 68.8	1/2 LOAD PF: 57.8	91	SQ CAGE IND RUN	12.4 / 6.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	156 / 78	70.5 LB-FT 158	115.1 LB-FT 258	30

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 LB-FT^2	0 LB-FT^2	15 SEC.	2	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
6309	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

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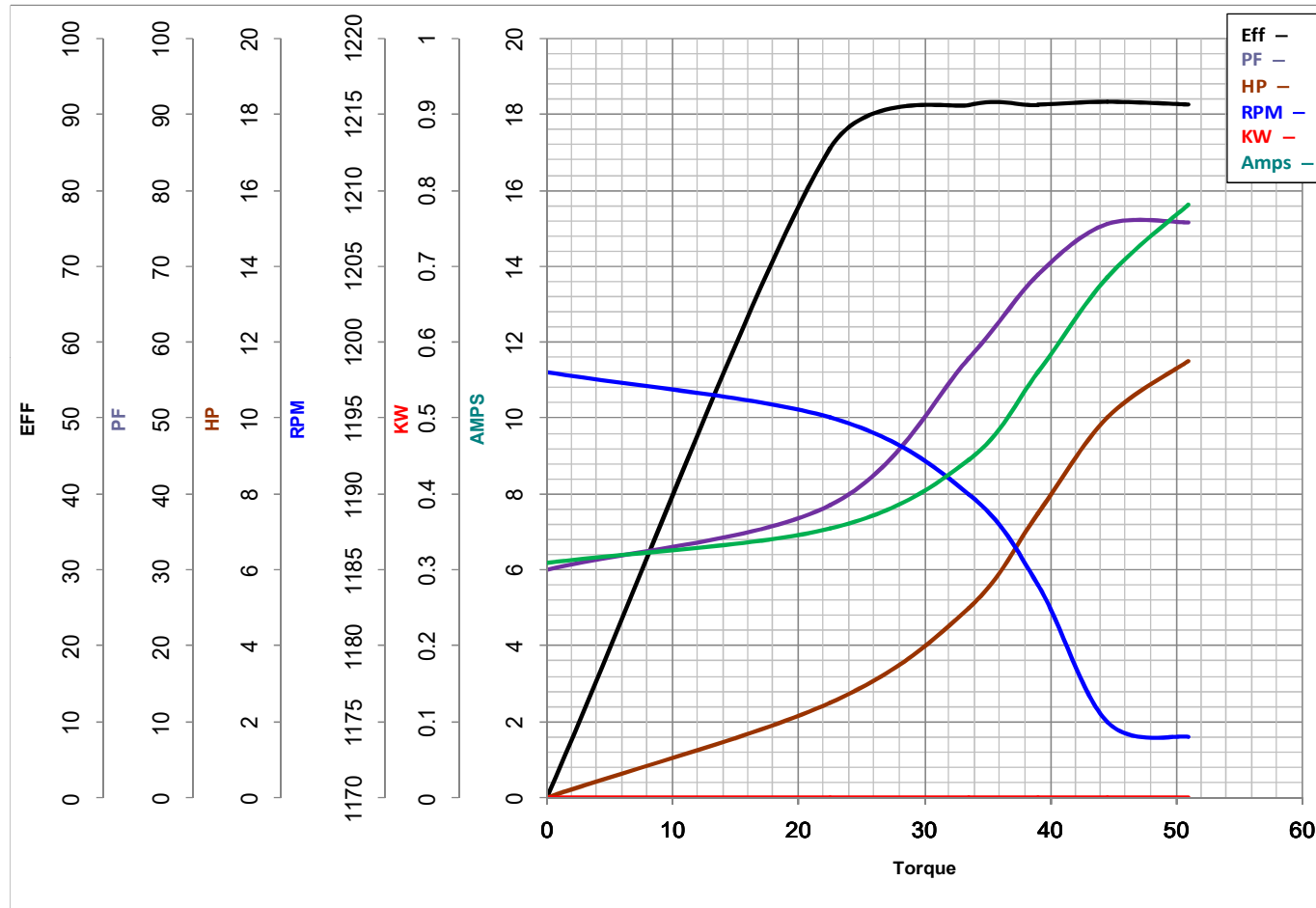
INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

DATE: 06/23/2017 05:35:39 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 10&10 PHASE 3
 Model No 256TTDX16078 60 HZ 10 HP VOLTS 230/460&200/400
 Catalog No E734A HZ 60&50 RPM 1175&



Torque in Lb.Ft

FL TORQUE	<u>44.5</u>	Lb.Ft	FL AMPS	<u>27.4/13.7</u>	
BD TORQUE	<u>115.1</u>	Lb.Ft	PU TORQUE	<u>61.0</u>	Lb.Ft
LR TORQUE	<u>70.5</u>	Lb.Ft	LR AMPS	<u>78</u>	
WINDING	BHR6T01-3		Date	1/17/2019	