

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 254TTDX16010

Catalog No: E708A

XRI® General Purpose General Purpose Motor, 20 & 20 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,
3600 & 3000 RPM, 254T Frame, DP



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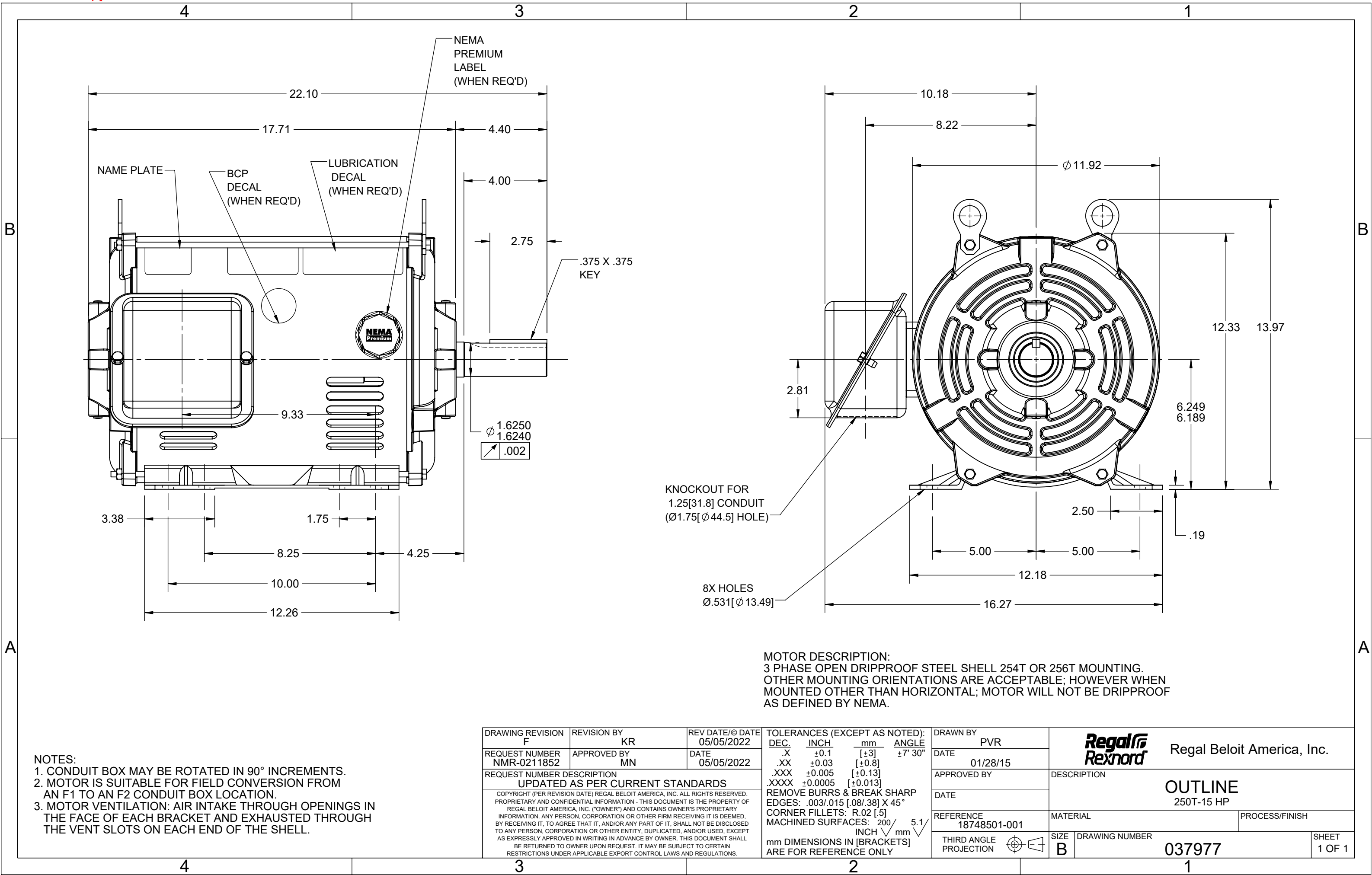
RegalRexnord

Nameplate Specifications

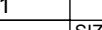
Phase	3	Output HP	20 & 20 Hp
Output KW	14.9 & 14.9 kW	Voltage	230/460 & 200/400 V
Speed	3535 & 2925 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	91 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	48/24 & 55/27.5 A	Power Factor	85.7
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	N	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	.55 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	22.10 in
Shaft Diameter	1.625 in	Shaft Extension	4 in
Assembly/Box Mounting	F1 ONLY		
Connection Drawing	80022802	Outline Drawing	037977-1300



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.

DRAWING REVISION F	REVISION BY KR	REV DATE/© DATE 05/05/2022	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE .X ±0.1 [±3] ±7' 30" .XX ±0.03 [±0.8] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200 INCH mm 5.1 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY		DRAWN BY PVR	 Regal Beloit America, Inc.		
REQUEST NUMBER NMR-0211852	APPROVED BY MN	DATE 05/05/2022			DATE 01/28/15			
REQUEST NUMBER DESCRIPTION UPDATED AS PER CURRENT STANDARDS			REFERENCE 18748501-001			DESCRIPTION OUTLINE 250T-15 HP		
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			THIRD ANGLE PROJECTION			SIZE B	DRAWING NUMBER 037977	SHEET 1 OF 1



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET**CUSTOMER:****ORDER #:****CONN. DIAGRAM:** 80022802**OUTLINE:** 037977-1300**WINDING #:** BGR2T01 3**CUSTOMER PO#:****MODEL #:** 254TTDX16010 AA**CUSTOMER PART #:****MOUNTING:** F1 ONLY**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&20	14.9&14.9	3600	3535&2925	254T	DP	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&200/400	48/24&55/27.5	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40

FULL LOAD EFF:	91&89.5	3/4 LOAD EFF:	90.2	1/2 LOAD EFF:	87.9	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	85.7&87.5	3/4 LOAD PF:	83	1/2 LOAD PF:	75.5	89.5		SQ CAGE IND RUN

F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C
29.7 LB-FT		288 / 144		44 LB-FT 148 %		88 LB-FT 296 %		-

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	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6309	6207						

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

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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

PREPARED BY: Dinesh**Suddula DATE:**

02/14/2019 03:15:22 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 20&20

 PHASE 3

 Model No 254TTDX16010
60

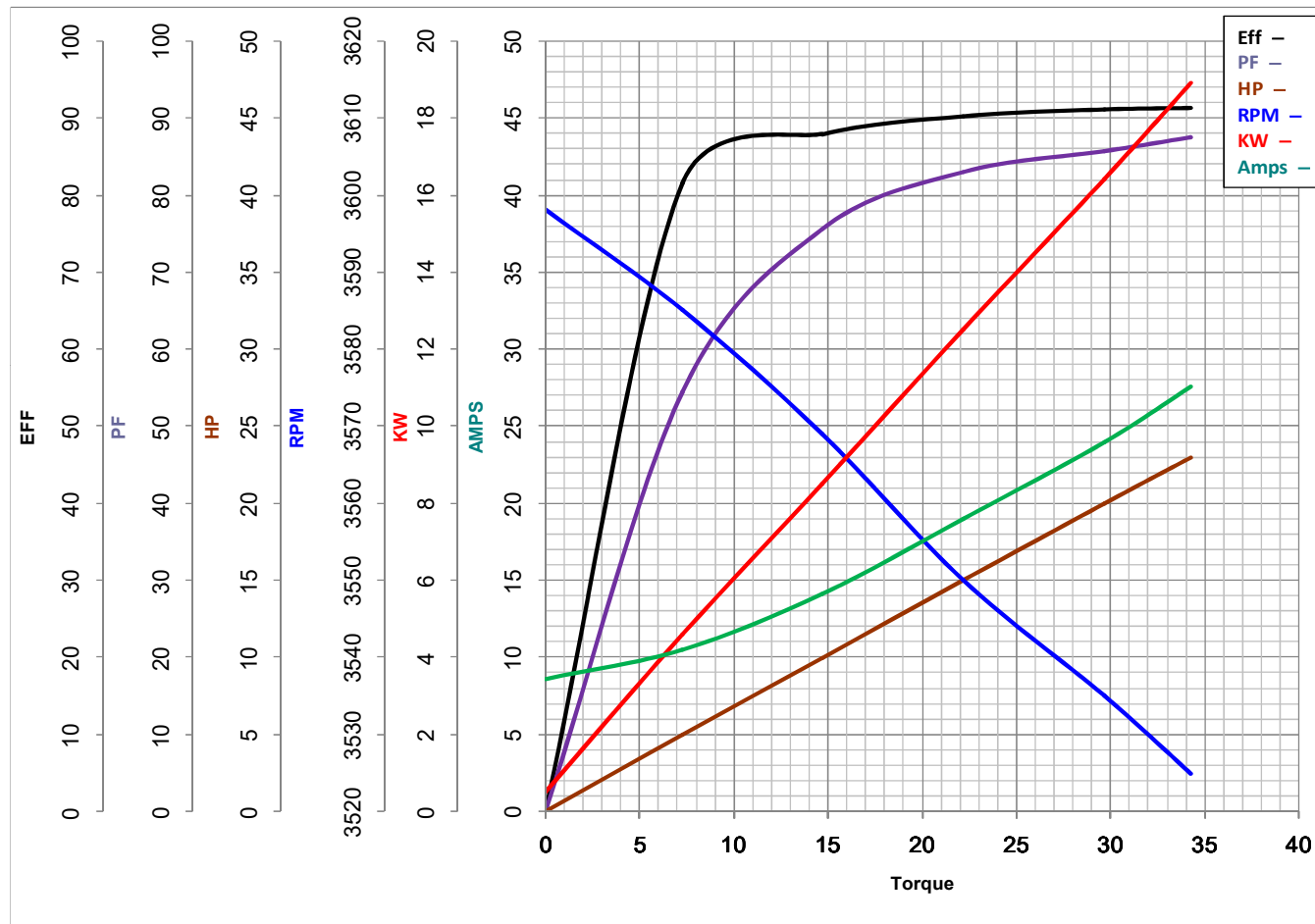
HZ

 VOLTS 230/460&200/400
20

HP

 Catalog No E708A

 HZ 60&50

 RPM 3535&2925


Torque in Lb.Ft

 FL TORQUE 29.7 Lb.Ft

 BD TORQUE 88.0 Lb.Ft

 LR TORQUE 44 Lb.Ft

 FL AMPS 48/24

 PU TORQUE 42.0 Lb.Ft

 LR AMPS 144

WINDING BGR2T01-3

Date 1/7/2019