

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 254TTDX16042

Catalog No: E722A

XRI® General Purpose General Purpose Motor, 15 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,
1800 & 1500 RPM, 254T Frame, DP



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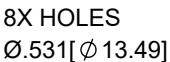
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	15 & 15 Hp
Output KW	11.2 & 11.2 kW	Voltage	230/460 & 200/400 V
Speed	1768 & 1460 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	93 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	38/18.9 & 44/22.1 A	Power Factor	79.9
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	4	Rotation	Reversible
Resistance Main	.515 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	80022801	Outline Drawing	037977



TOLERANCES (EXCEPT AS NOTED):

<u>DEC.</u>	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>
.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 [0.08/.38] X 45°

CORNER FILLETS: R.02 [5]

MACHINED SURFACES: $\frac{200}{\text{INCH}} \sqrt{\frac{5.1}{\text{mm}}}$

mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

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.

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CERTIFICATION DATA SHEET

Model#: 254TTDX16042 AA
 CONN. DIAGRAM: 80022801
 OUTLINE: 037977

WINDING#: BGR4T01 NONE 3
 ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15&15	11.2&11.2	1800	1768&1460	254T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/ 400	38/18.9&44/22 .1	ACROSS THE LINE	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 93&91.7	3/4 LOAD EFF: 93.2	1/2 LOAD EFF: 92.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 79.9&79.5	3/4 LOAD PF: 75.2	1/2 LOAD PF: 66	91.7	SQ CAGE IND RUN	15.4 / 7.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	228 / 114	84.1 LB-FT 189	117 LB-FT 263	21

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	2 LB-FT^2	- LB-FT^2	20 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

* N O T E S *	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 03:28:27 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 1/7/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA

254TTDX16042



Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.7	8.9	11.5	15.0	18.9	21.5	23.0	114	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.5	51.0	60.0	84.1	
RPM	1800	1793	1785	1777	1768	1762	1740	0	
Efficiency (%)		88.9	92.7	93.2	93.0	92.7	93.0		
P.F. (%)	0.0	44.5	66.0	75.2	79.9	81.1	82.0	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	884	1656	1768	1800
Current (Amps)	114	103	68.4	18.9	7.7
Torque (ft-lb)	84.1	71.5	117	44.5	0.00

Information Block

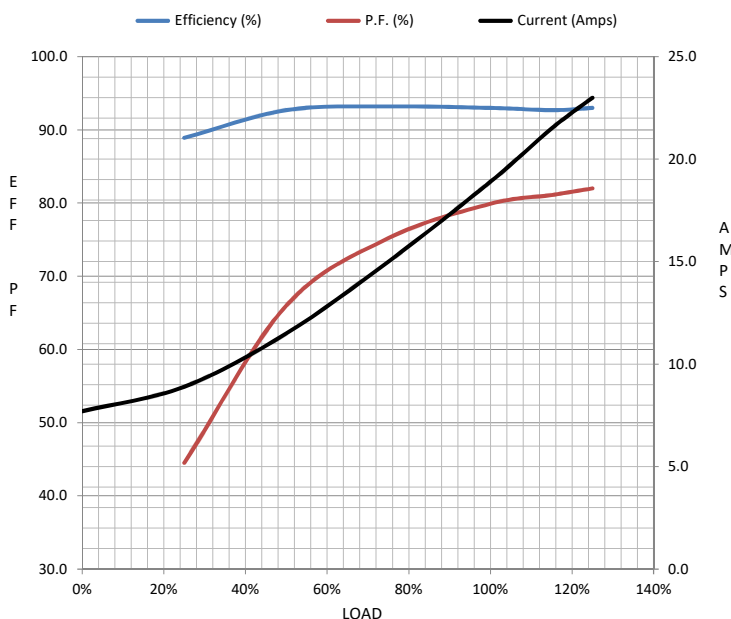
HP	15.0
Sync. RPM	1800
Frame	254
Enclosure	DP
Construction	TDR
Voltage	230/460#200/400 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	21 °C
Duty	CONT
Ambient	40 °C
Elevation	3,300 feet
Rotor/Shaft wk ²	2.00 Lb-Ft ²
Ref Wdg	BGR4T01 NONE
Sound Pressure @ 1M	999 dBA
VFD Rating	NONE
Outline Dwg	037977.00
Conn. Diag	80022801

Additional Specifications:

0
0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed -Torque Curve

