marathon®

General Purpose Motors

Model No: 254TTDBD6101
Catalog No: GT00109

General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 900 RPM, 254T Frame, DP

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Product Information Packet: Model No: 254TTDBD6101, Catalog No: GT00109 General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 900 RPM, 254T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**5 & 3 Hp**
Output KW	**3.7 & 2.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**880 & 735 r/min**	Synchronous RPM	**900 & 750 r/min**
Service Factor	**1.15 & 1.15**	Frame	**254T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**88.5 & 87.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**14.2/7.1 & 11.2/5.6 A**
Power Factor	**74.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6208**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

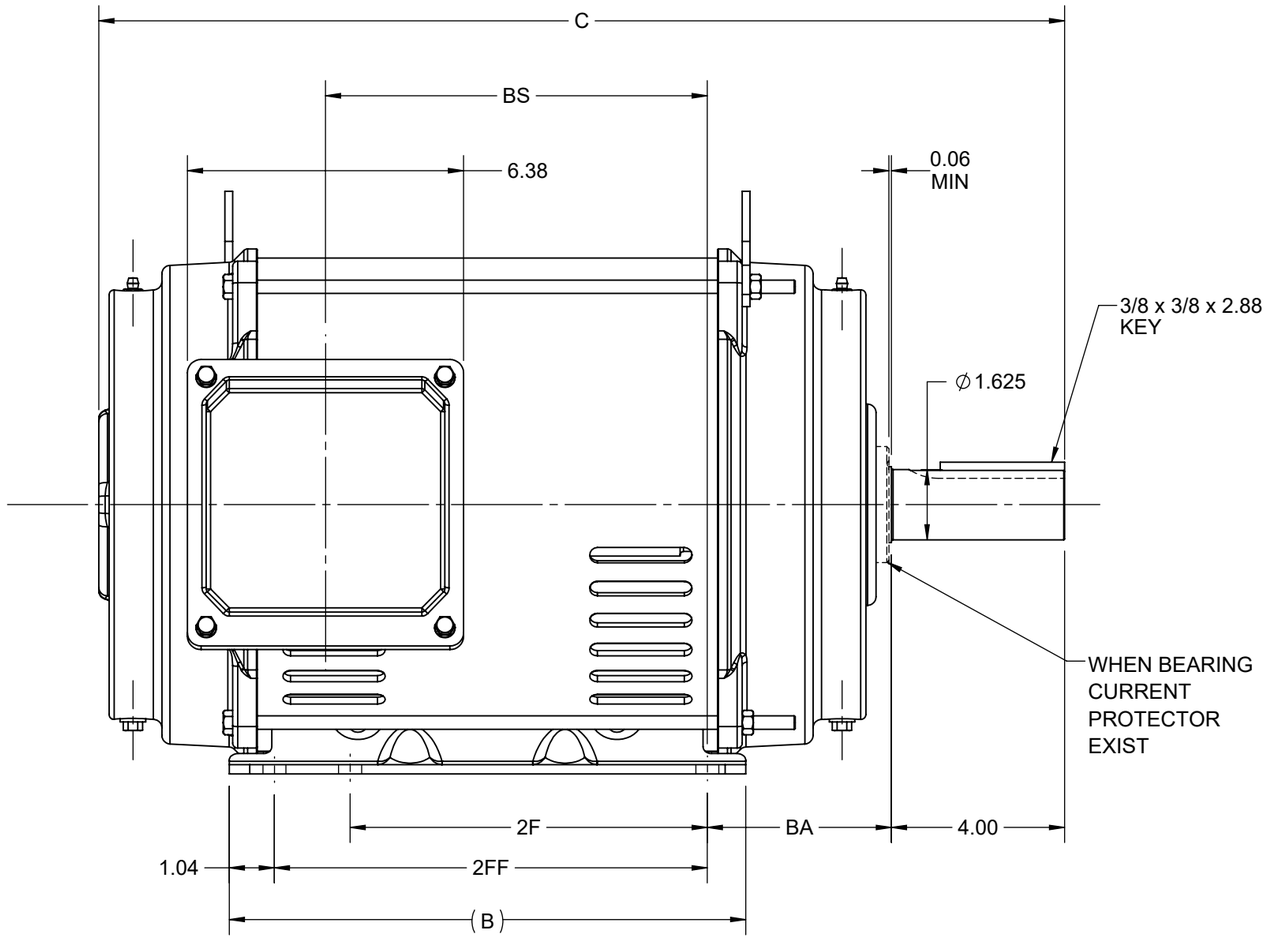
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**8**	Rotation	**Reversible**
Resistance Main	**1.9263 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Shaft Diameter	**1.625 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Constant 2:1/Variable 10:1**

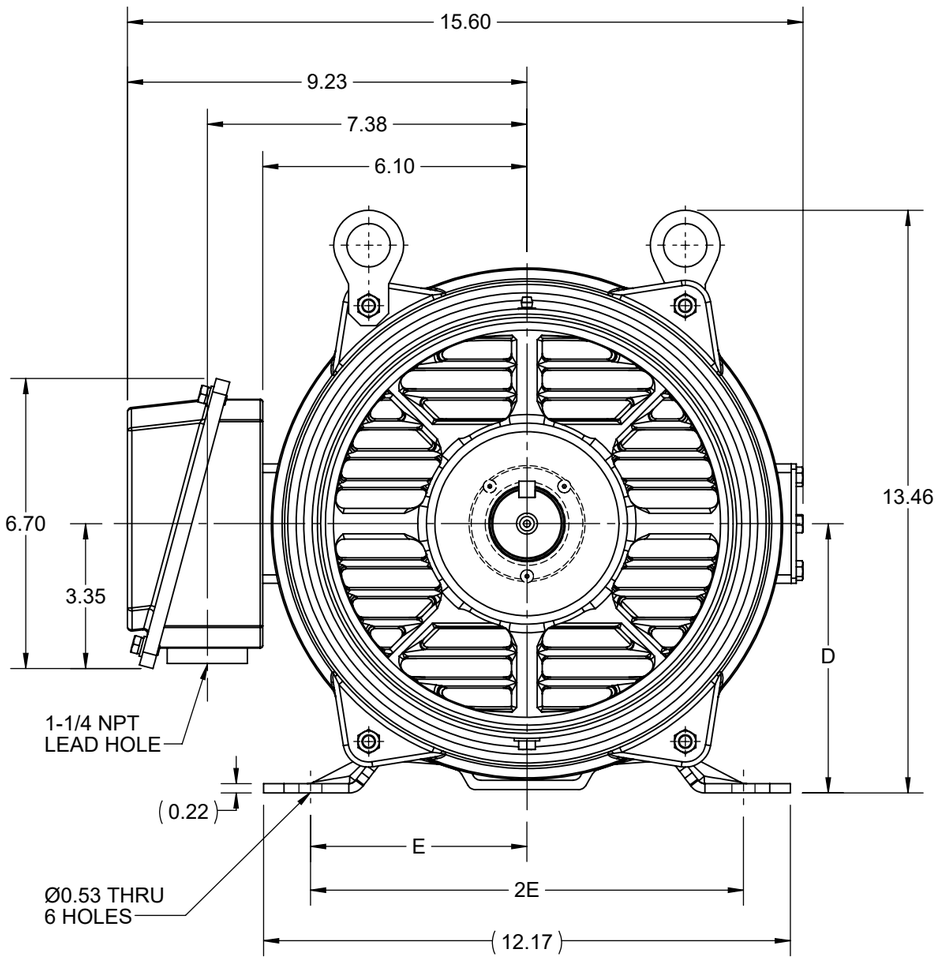
Drawings

Connection Drawing	**EE7308**	Outline Drawing	**SS620685-100**

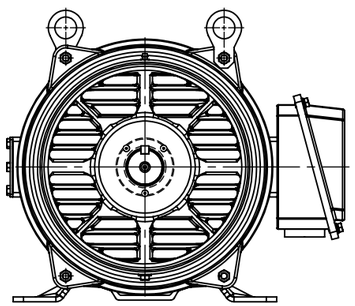
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	11.93	22.31	6.25	5.00	10.00	8.25	10.00	4.25	8.82	F1 OR F2	254T
200		23.88							10.45		256T





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
E	MN	09/04/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023941	VS	09/04/2025

REQUEST NUMBER DESCRIPTION
UPDATED DRAWING VIEW

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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 / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	XZ
DATE	25/02/2016
APPROVED BY	
DATE	
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
OUTLINE
254/256T FR NEMA ODP RS

MATERIAL | PROCESS/FINISH

SIZE B | DRAWING NUMBER SS620685 | SHEET 1 OF 1

Uncontrolled Copy

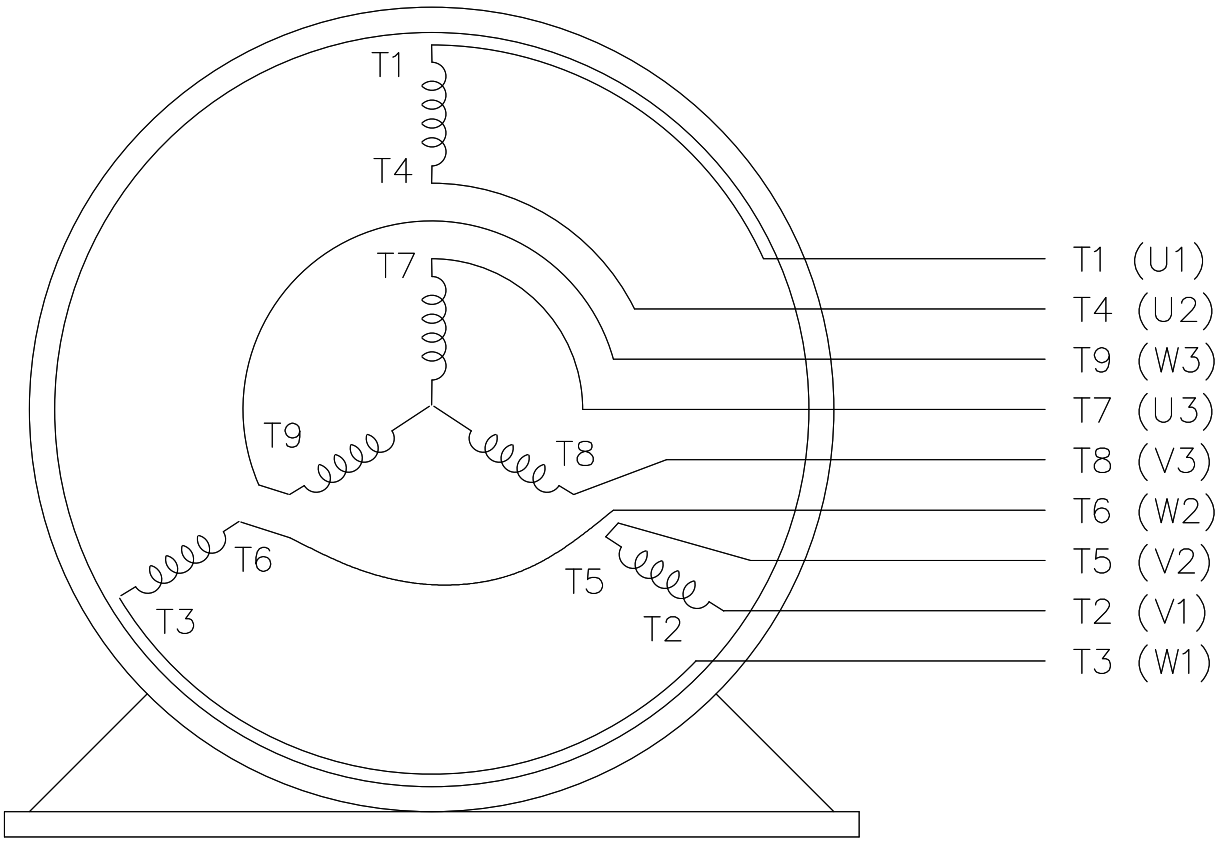
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

DRAWING REVISION	REVISION BY	REV DATE/ © DATE
J	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025

REQUEST NUMBER DESCRIPTION
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DRAWN BY	RM
DATE	11/20/1990
APPROVED BY	SAS
DATE	04/24/2003
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	4 of 4 EE7308	1 OF 1