General Purpose Motors

Model No: 254TTDBD6030
Catalog No: GT0159

General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 254T Frame, DP

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Product Information Packet: Model No: 254TTDBD6030, Catalog No: GT0159 General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 254T Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**15 Hp**
Output KW	**11.2 kW**	Voltage	**575 V**
Speed	**1774 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.15**	Frame	**254T**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**93 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**15.1 A**
Power Factor	**81**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	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

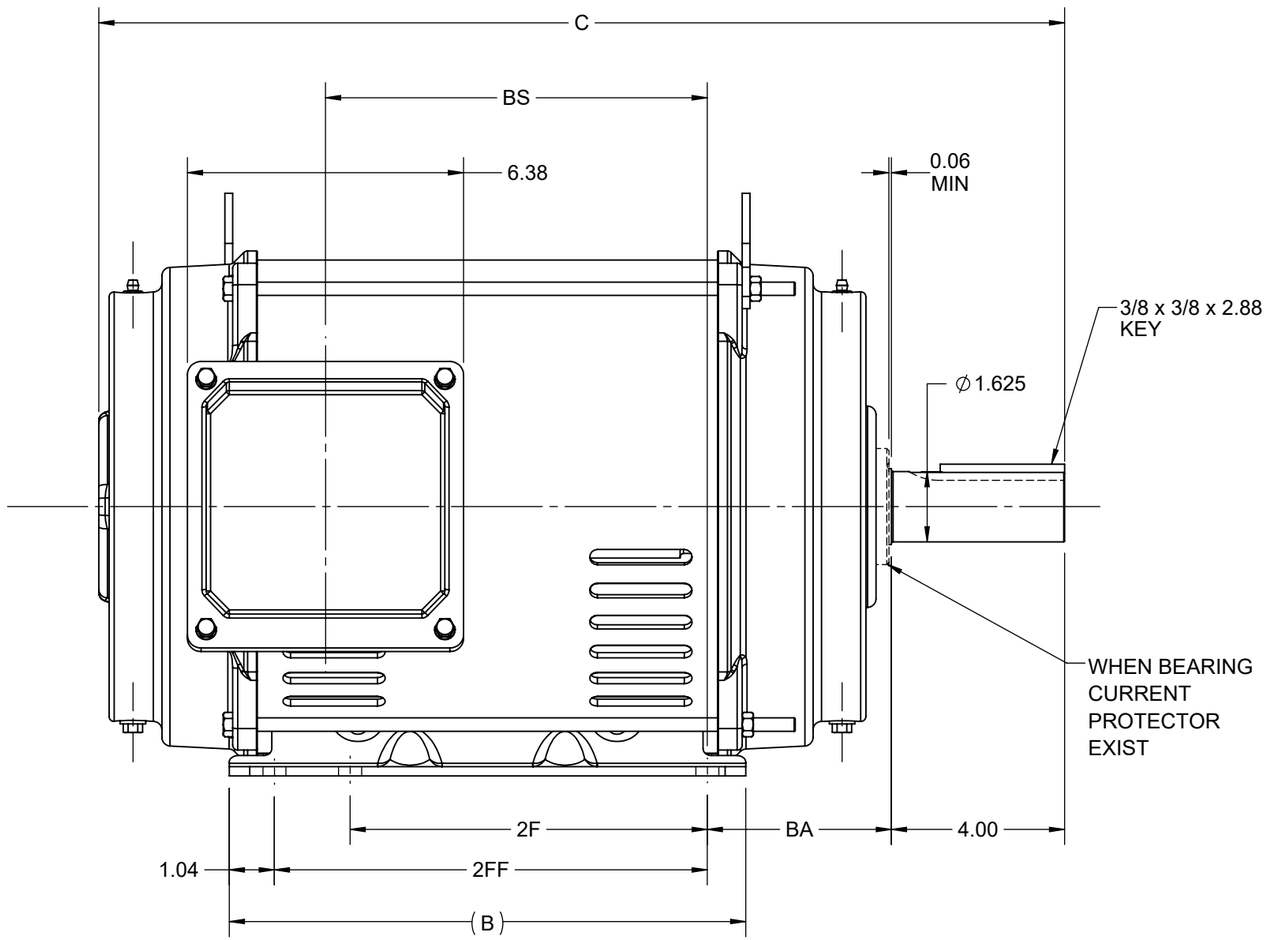
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Wye Start Delta Run Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.6729 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**22.64 in**
Frame Length	**270.0 in**	Shaft Diameter	**1.625 in**
Shaft Extension	**4.00 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Constant 2:1/Variable 10:1**		

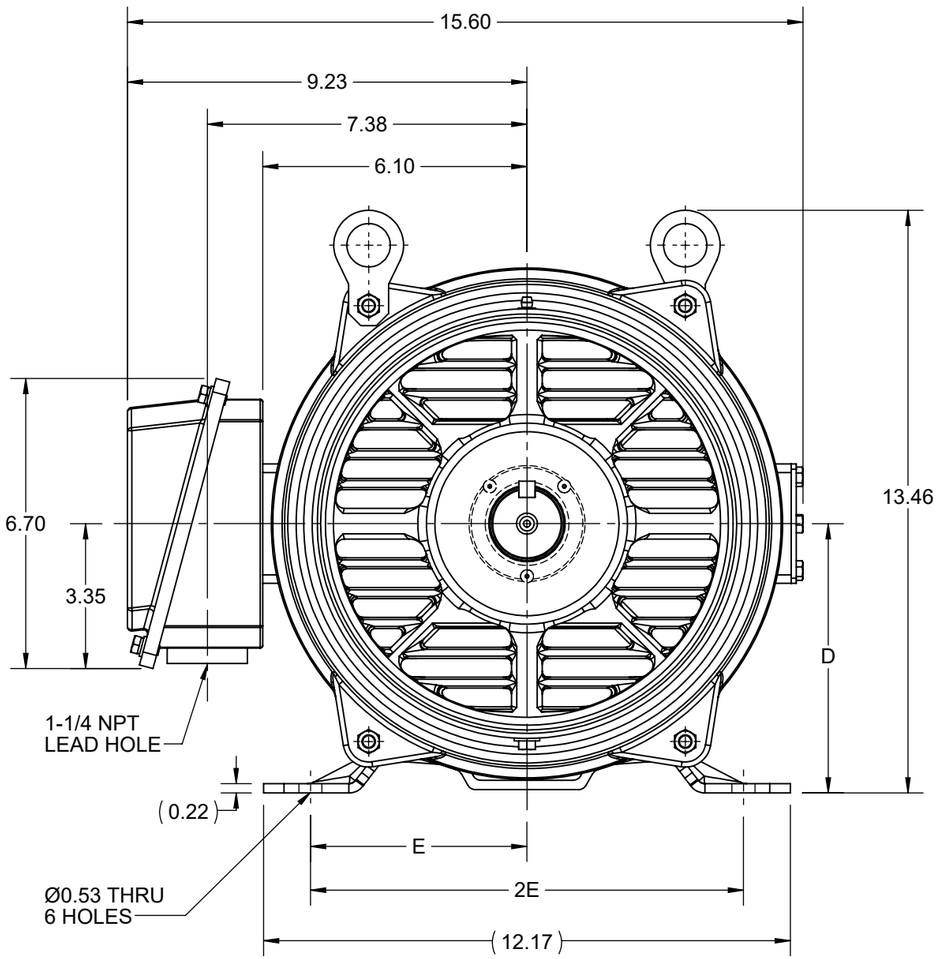
Drawings

Connection Drawing	**EE7340**	Outline Drawing	**SS620685-100**

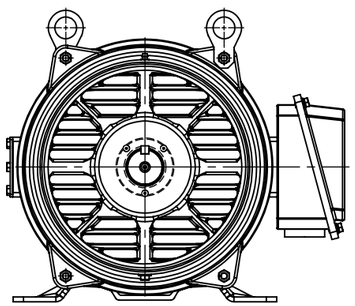
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	11.93	22.31	6.25	5.00	10.00	8.25	10.00	4.25	8.82	F1 OR F2	254T
200		23.88							10.45		256T





F2 VIEW



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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

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	

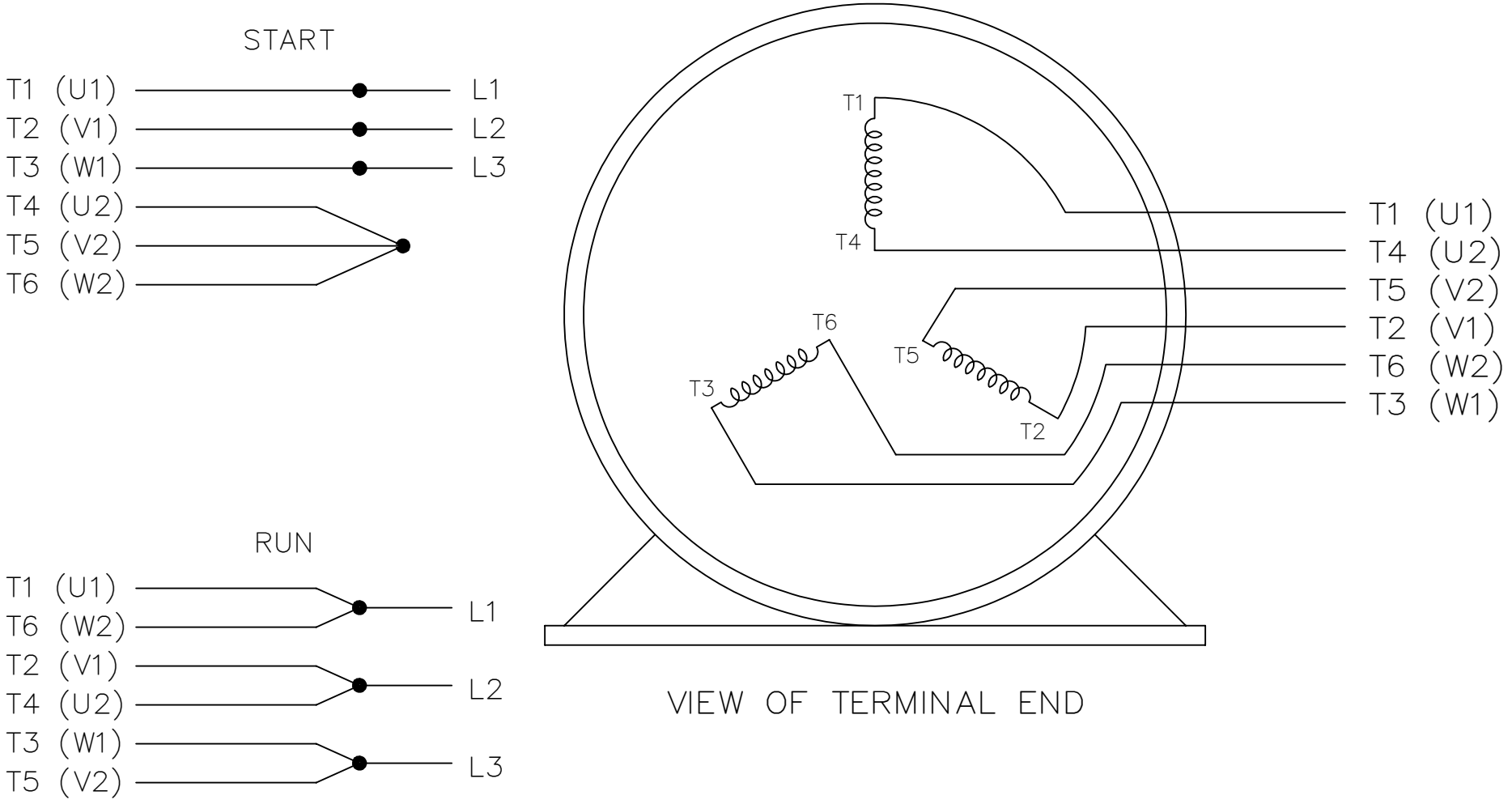
marathon™

DESCRIPTION
OUTLINE
254/256T FR NEMA ODP RS

MATERIAL | PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS620685	1 OF 1

THREE PHASE
WYE START DELTA RUN



DRAWING REVISION: G	REVISION BY: SB	REV DATE/© DATE: 08/04/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: LZ	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/04/2025		DATE: 01-06-1994	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: GK	DESCRIPTION: CONNECTION DIAGRAM 3∅ - WYE START DELTA RUN
				DATE: 01-18-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7340 / SHEET: 1 OF 1

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Data Sheet

Date: 9/20/2023
Customer:
Attention:
Submitted by: RAMYA

marathon® Motors

254TTDBD6030

Submittal

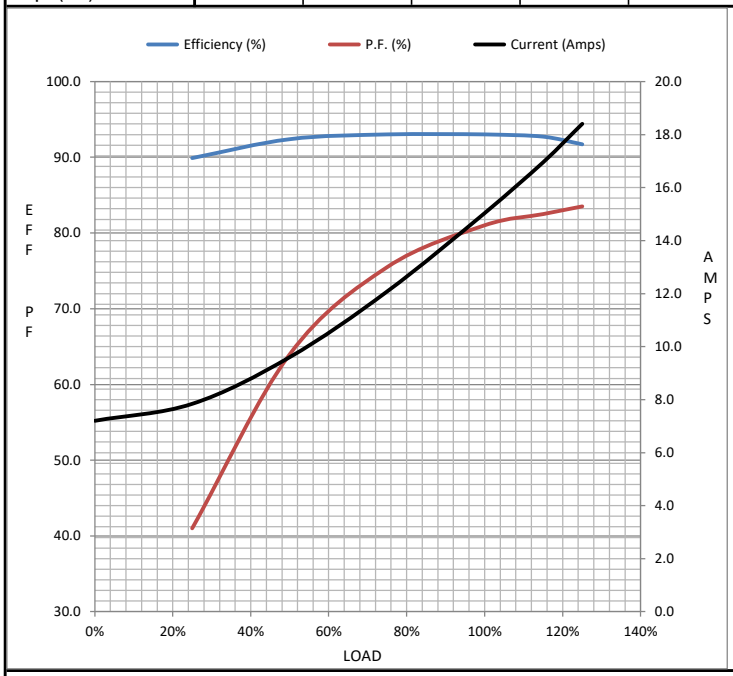
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.2	7.8	9.6	12.1	15.0	17.0	18.4	92.0	
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.4	51.2	55.8	91.0	
RPM	1800	1792	1788	1780	1774	1,768	1765	0	
Efficiency (%)		89.9	92.4	93.0	93.0	92.7	91.7		
P.F. (%)	5.0	41.0	64.0	75.5	81.0	82.5	83.5	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1628	1774	1800
Current (Amps)	92.0	84.0	58.8	15.0	7.2
Torque (ft-lb)	91.0	78.0	119	44.4	0.00



Information Block

HP	15.0	
Sync. RPM	1800	
Frame	254	
Enclosure	DP	
Construction	TDB	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	40	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	2.30	Lb-Ft²
Ref Wdg	HA31604021 NONE	
Sound Pressure @ 1M	74	dBA
VFD Rating	CONSTANT 2:1/VARIABLE 10:1	
Outline Dwg		
Conn. Diag	EE7300	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.6440	0.3660	2.1000	2.2710	47.6040

Speed -Torque Curve

