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Close-Coupled Pump Motors

Model No: 284TTDBD6013
Catalog No: GT2569

Close-Coupled Pump Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 284JP Frame, DP

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Product Information Packet: Model No: 284TTDBD6013, Catalog No: GT2569 Close-Coupled Pump Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 284JP Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**30 Hp**
Output KW	**22.4 kW**	Voltage	**575 V**
Speed	**3562 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**284JP**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**91.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**28.6 A**
Power Factor	**87**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**F**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6211**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

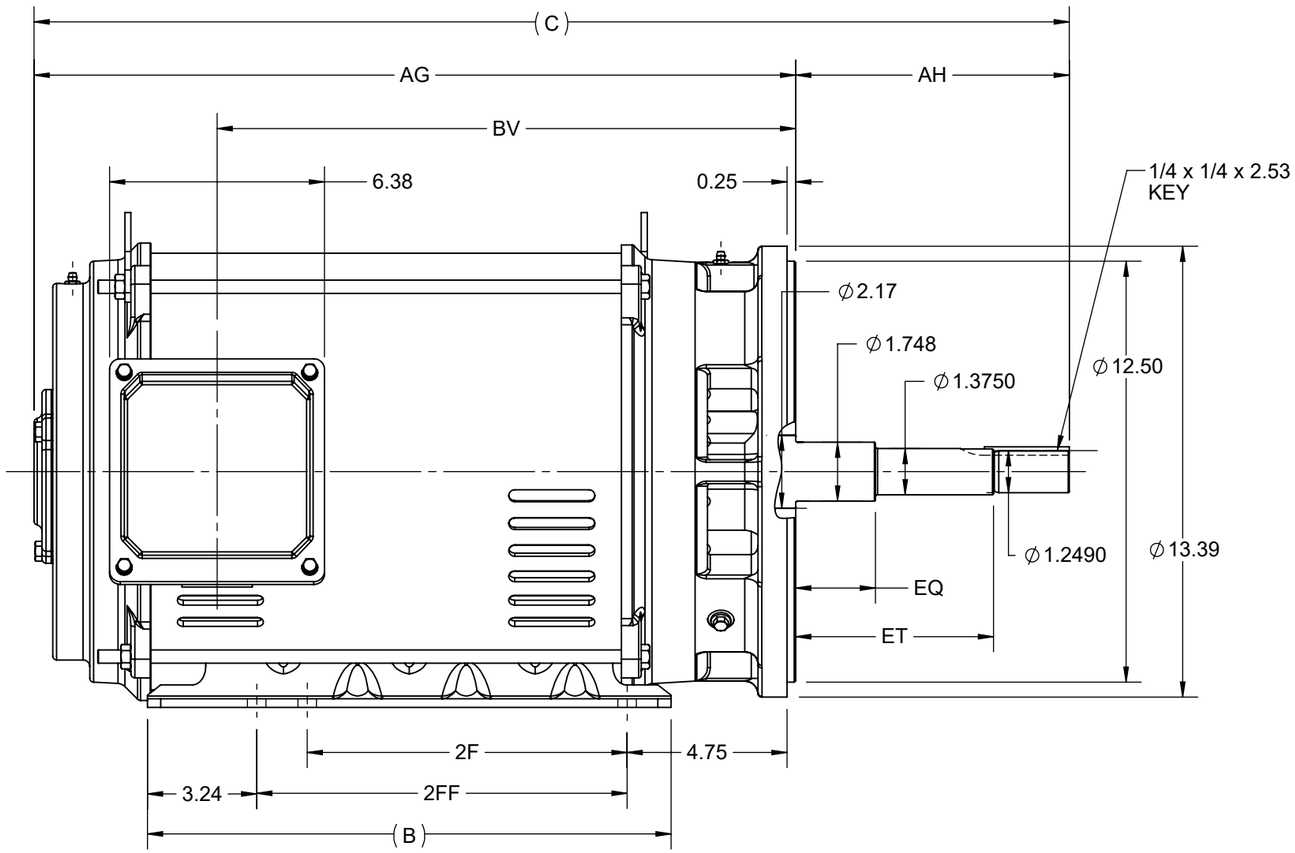
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.358 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**JP**	Overall Length	**29.53 in**
Frame Length	**12.59 in**	Shaft Diameter	**1.249 in**
Shaft Extension	**8.4 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Variable 10:1**		

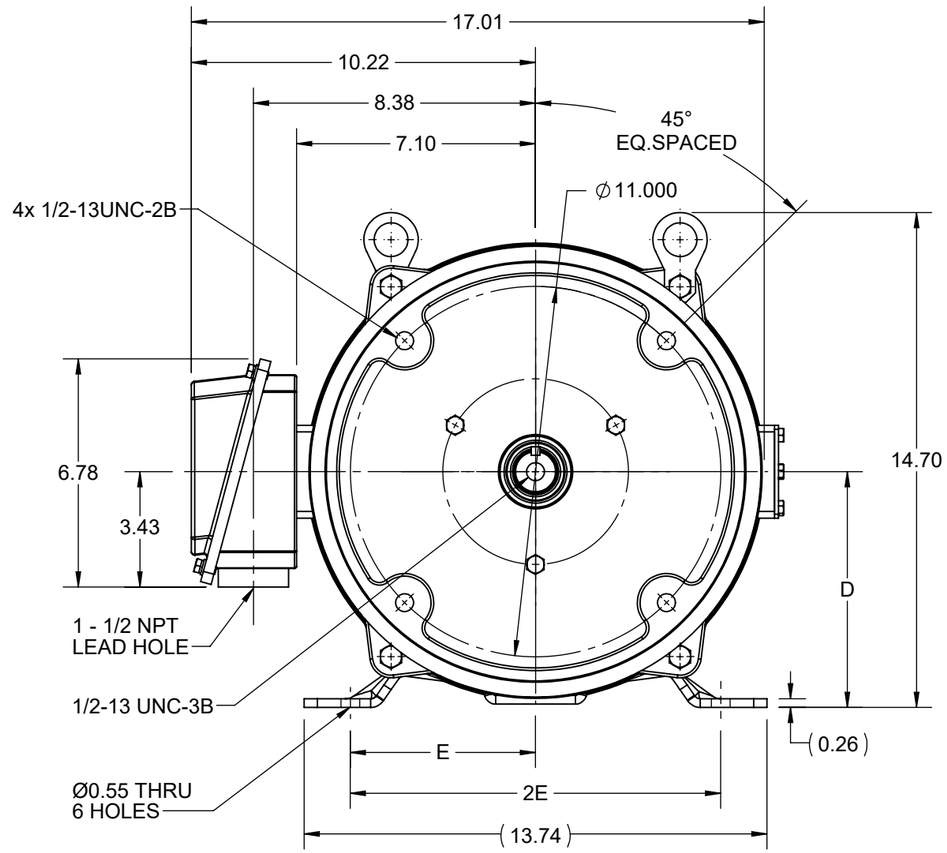
Drawings

Connection Drawing	**EE7300**	Outline Drawing	**SS620826-100**

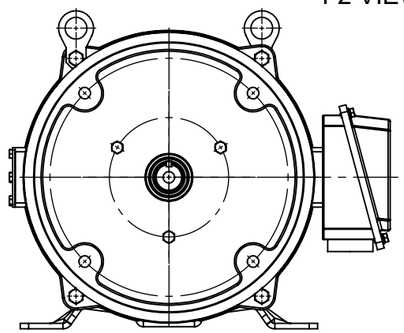
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DASH NO.	B	C	D	E	2E	2F	2FF	AG	AH	BV	EQ	ET	MOUNTING	FRAME
100	15.55	29.36	7.00	5.50	11.00	9.50	11.00	21.24	8.126	15.80	2.37	5.88	F1 OR F2	284JP
200		30.74						22.61		17.18				284/286JP





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	VS	23RD JULY 25
REQUEST NUMBER	APPROVED BY	DATE
NMR-0238040	VS	23RD JULY 25

REQUEST NUMBER DESCRIPTION
ADDED F2 MOUNTING PLATE

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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	WY
DATE	17/04/2017
APPROVED BY	ZYH
DATE	17/04/2017
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
OUTLINE
284/286JP FR NEMA ODP RS

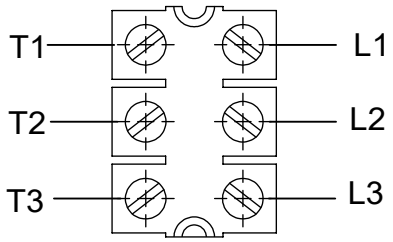
MATERIAL | PROCESS/FINISH

SIZE B | DRAWING NUMBER SS620826 | SHEET 1 OF 1

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

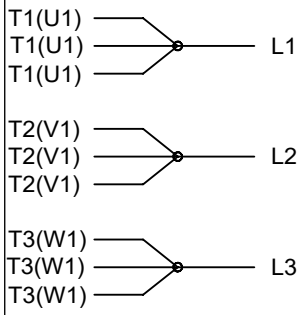
TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

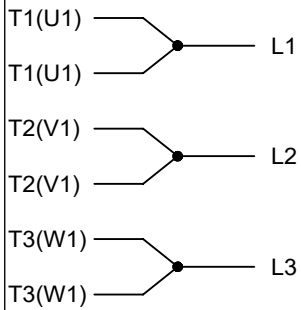


VIEW OF TERMINAL END

IF MOTOR HAS
9 LEADS



IF MOTOR HAS
6 LEADS



A-9806 DECAL

OPTIONAL CORD
CONNECTION

L1	WHITE
L2	RED
L3	BLACK

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

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
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DRAWN BY: DA	
DATE: 03-26-1993	
APPROVED BY: TB	
DATE: 03-26-1993	
REFERENCE	
THIRD ANGLE PROJECTION	

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DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7300	1 OF 1

Data Sheet

Date: 12/1/2021
Customer:
Attention:
Submitted by:

marathon® Motors

284TTDBD6013

Submittal

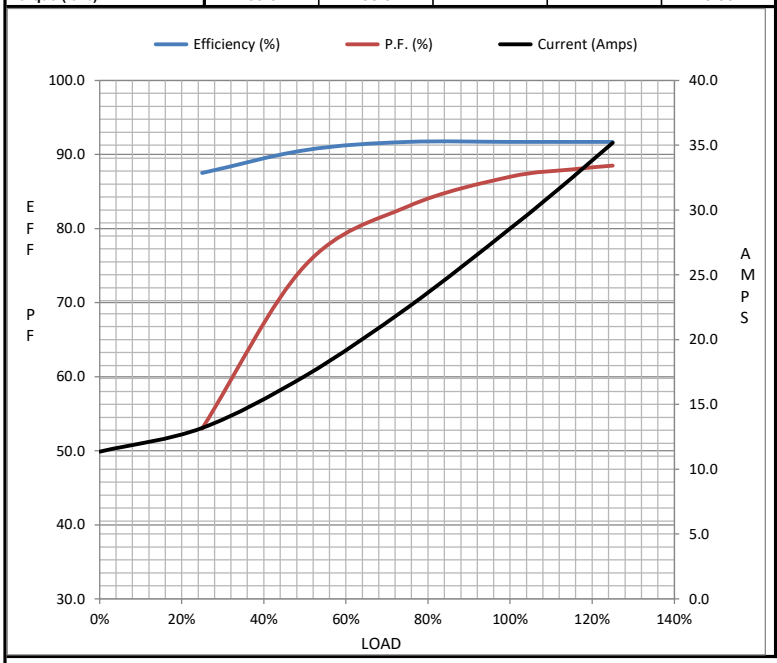
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	11.4	13.2	17.2	22.5	28.6	32.5	35.2	150	
Torque (ft-lb)	0.00	11.0	22.0	33.0	44.2	51.0	55.5	69.0	
RPM	3600	3590	3582	3572	3562	3,558	3552	0	
Efficiency (%)		87.5	90.6	91.7	91.7	91.7	91.7		
P.F. (%)	9.0	53.0	75.0	83.0	87.0	88.0	88.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3390	3562	3600
Current (Amps)	150	133	90.4	28.6	11.4
Torque (ft-lb)	69.0	58.5	111	44.2	0.00



Information Block

HP	30.0	
Sync. RPM	3600	
Frame	284	
Enclosure	DP	
Construction	TDB	
Voltage	575	V
Frequency	60	Hz
Design	B	
LR Code letter	F	
Service Factor	1.15	
Temp Rise @ FL	55	° C
Duty	CONT	
Ambient	40	° C
Elevation	3,300	feet
Rotor/Shaft wk²	3.0	Lb-Ft²
Ref Wdg	HA31802007 NONE	
Sound Pressure @ 1M	78	dBA
VFD Rating	VARIABLE 20:1	
Outline Dwg	SS620826-100	
Conn. Diag	EE7300	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.3250	0.1260	1.0930	1.2260	33.0750

Speed -Torque Curve

