

NEMA

Model JMC0302DP
MFG PN: T286T 30U2B

Model JMC0302DP

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
JMC0302DP	30	3550	230/460	3	60	286JM	Rigid/C-Flange	TEFC

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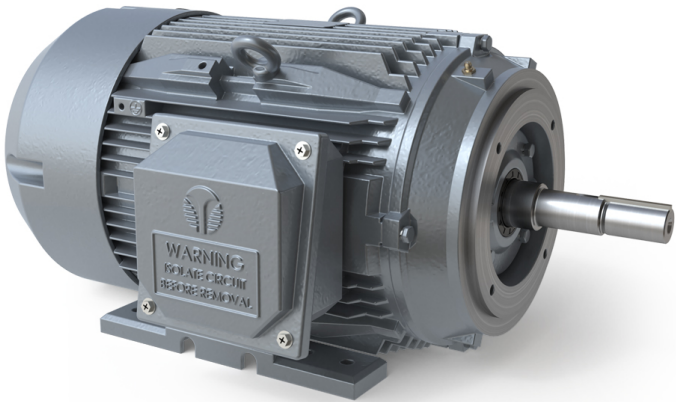
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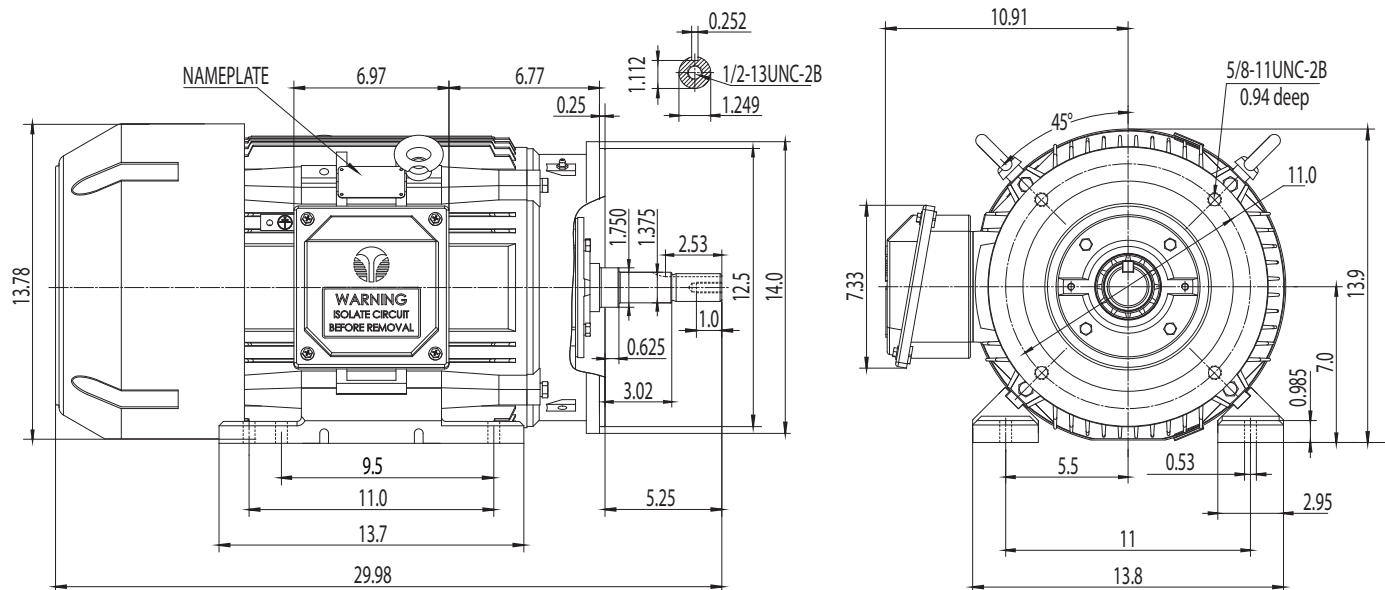
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ELECTRICAL DATA		
Rated Motor Output Power	30	HP
	-	kW
Rated Motor Speed	3550	r/min 60Hz
	2920	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	68/34	A (I _n) @ 60Hz
	81.6/40.8	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	328.4	A (I _n) @ 60Hz
FI Current @ 208V	75.28	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	H	50Hz
Nominal Efficiency	91.7	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	12	12
Connection	DD/D	-
Coil Resistance	20	Ω
Start Capacitor	-	μF/V
Run Capacitor	-	μF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	1000:1	0.06 - 60
Constant Torque	15:1	4 - 60
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	67.5	°C @ 60Hz
	84.5	°C @ 50Hz

GENERAL DATA		
Frame Size	286JM	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	404 lbs.	
Casing Material / Fan Cover	Cast Iron	Cast Iron
Shaft Material	304 SS	
NEMA Design	A	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	YES	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6311 C3	
Bearing ODE Side	6311 C3	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	1.94	
Sound Pressure @ 3 FT dBA	89.2	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T3A	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	30	30
RPM	3550	2920
Voltage	230/460	190/380
Full Load Amps	68/34	81.6/40.8
Service Factor	1.25	1
KVA Code	J	H
Full Load Amps (208V)	75.28	-
Nominal Efficiency	91.7	90.7
Nominal Power Factor	0.9	-
Design	A	
Frame	286JM	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6311 C3	
Opposite Drive End Bearing	6311 C3	
Weight (lbs)	404	

NAMEPLATE LAYOUT

<b style="font-size: 2em; vertical-align: middle;">TECHTOP		INDUSTRIAL THREE PHASE PUMP MOTOR INVERTER DUTY 1000:1 VT - 1.0 SF	
MODEL			TECHTOPCANADA.COM
NEMA Premium®	60Hz	50Hz	MFG PN MFG DATE SER # DESIGN FRAME ENCL IP DUTY INS CL AMB WEIGHT
	HP		
	RPM		
	VOLT		
	FLA		
	SF		
	KVA CODE		
	NOM.EFF		
BEARING SIZE		 Energy Verified Only	
USABLE AT 208V 60Hz			
FLA	GREASE: MOBIL POLYREX EM		
MADE IN CHINA		IEEE 54 MARINE DUTY	

VFD DUTY (S.F. 1.0)	RATIO	Hz*
Variable Torque	1000:1	0.06 - 60
Constant Torque	15:1	4 - 60

*For max speed please contact Techtop Canada

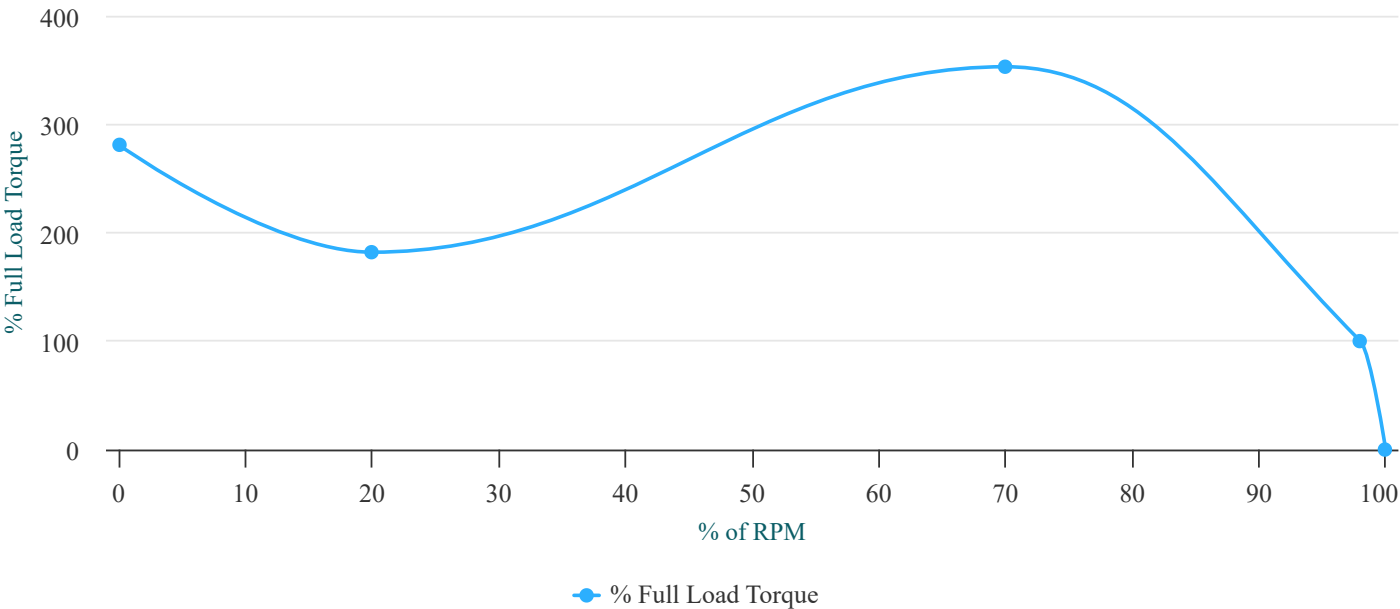
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	124.7	281	Start Configuration	DOL
Pull-Up Torque	80.8	182	Starting Current (A)	328.4
Breakdown Torque	156.7	353	No-Load Current (A)	12.2
Full Load Torque	44.4	100	No-Load Power Factor	-

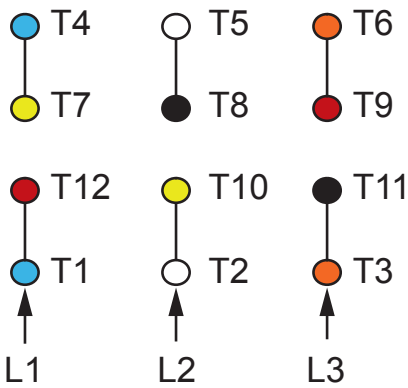
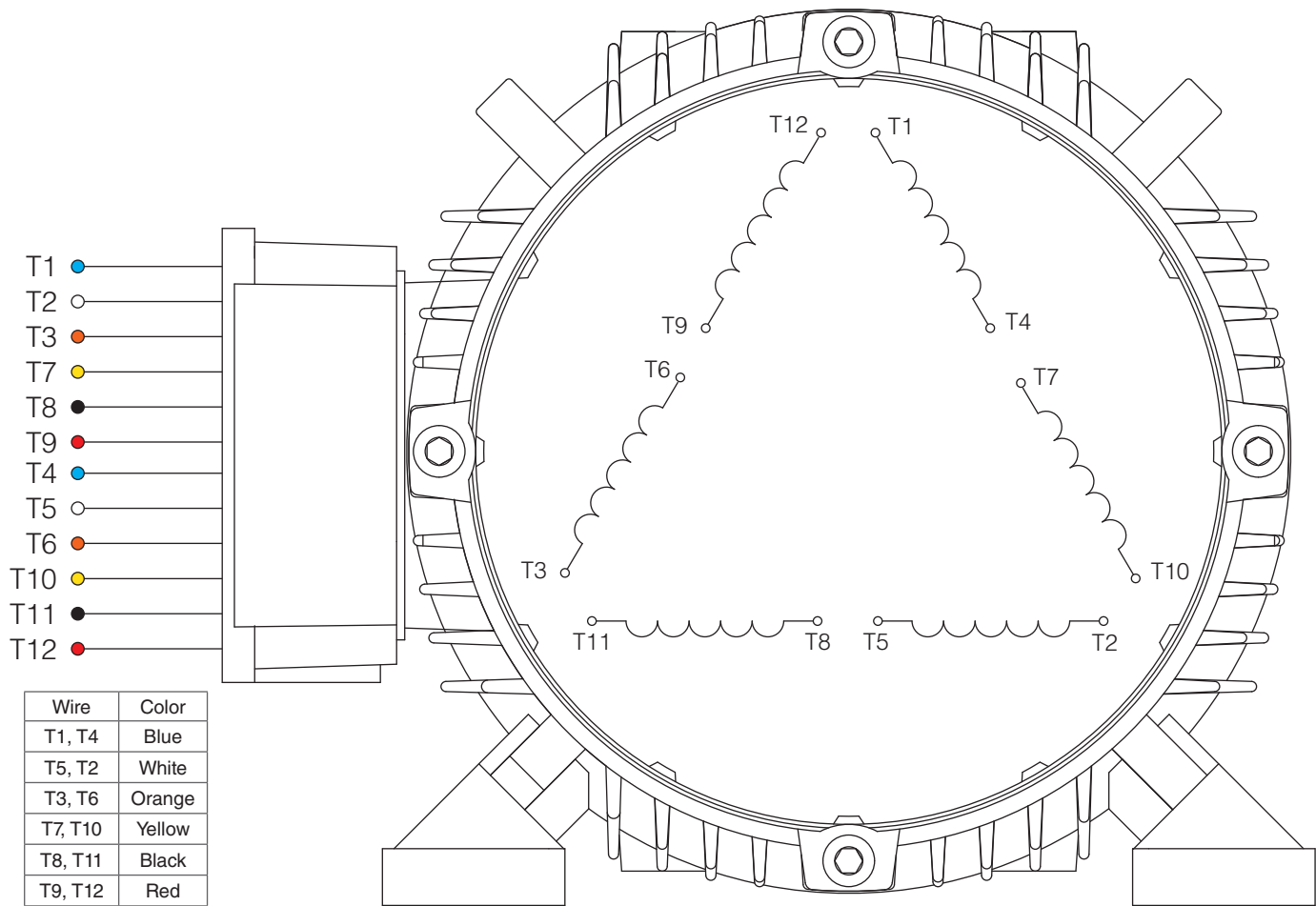
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	14.1	20.0	26.7	34.1	42.0	42.0
Efficiency (%)	86.9	91.5	92.5	92.5	92.0	92.0
Speed (r/min)	3590.0	3580.0	3568.0	3556.0	3543.0	3543.0
Power Factor (cosΦ)	0.56	0.75	0.84	0.88	0.89	0.89
Input Power (kW)	6.3	12.0	17.8	23.8	29.9	29.9

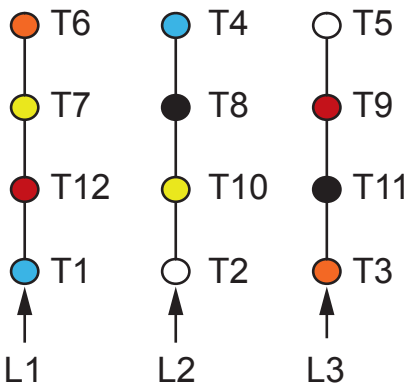
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HIGH VOLTAGE
(Δ)



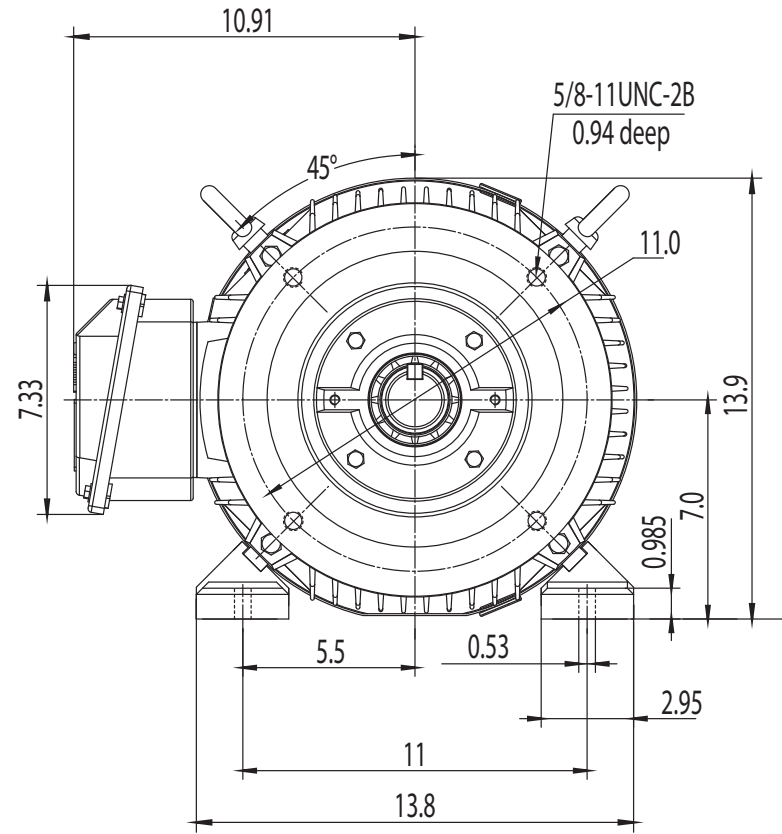
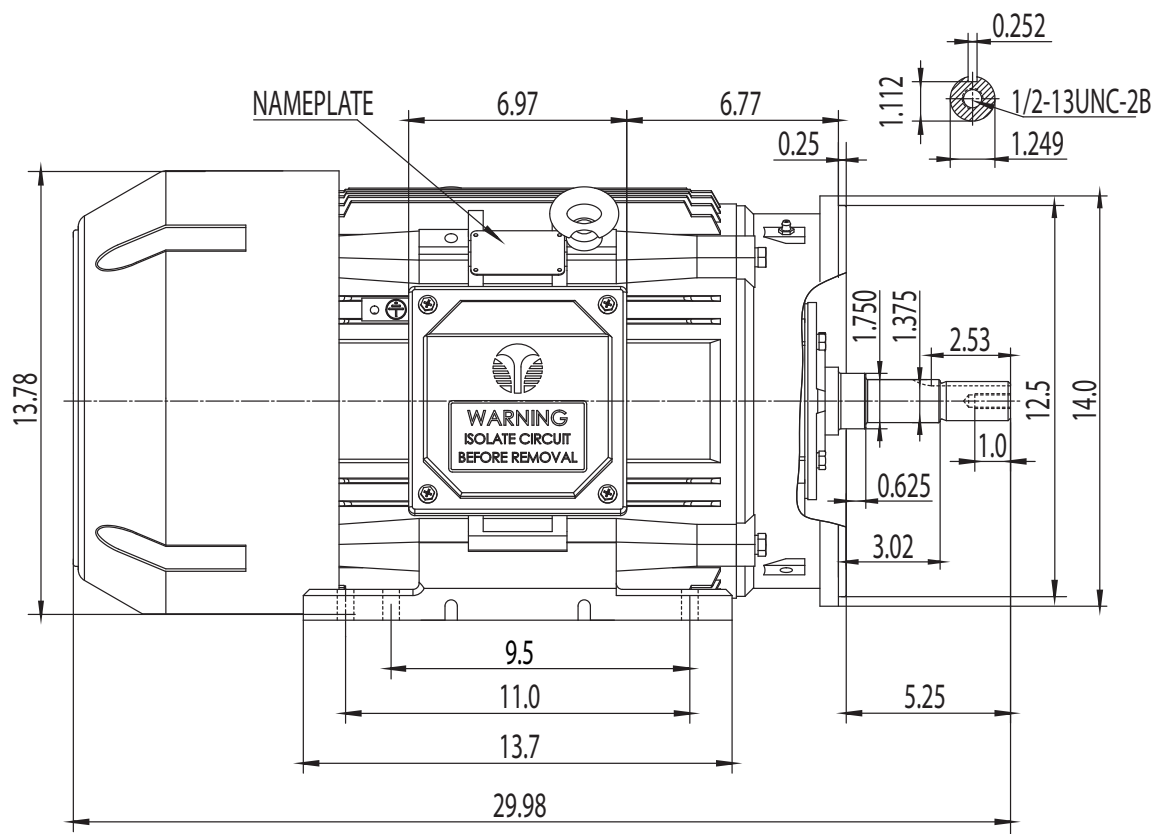
LOW VOLTAGE
(ΔΔ)

- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED AND COLORED AS SHOWN
 - 5. DIAGRAMS FOR REFERENCE ONLY



 TECHTOP <i>You can't top a Techtop.</i>		NEMA 3Ø DD/D 12-Lead Dual Voltage	
DRAWING NUMBER:	NEMA-3-12-DD-D	ISSUED DATE	29/10/25
CONNECTION:	DD/D		
NUMBER OF LEADS:	12		
THERMAL PROTECTION:	-	PREMIUM JM-JP PUMP MOTORS	

NEMA 3Ø DD/D 12-Lead Dual Voltage



NEMA Premium TEFC 286JM

DRAWING NUMBER:

GR3-CI-TF-286JM-CFC

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Cast Iron

ISSUED DATE

29/10/25

PREMIUM JM-JP PUMP MOTORS