

NEMA

Model JMC0254DP
MFG PN: T284T 25U4B

Model JMC0254DP

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
JMC0254DP	25	1775	230/460	3	60	284JM	Rigid/C-Flange	TEFC

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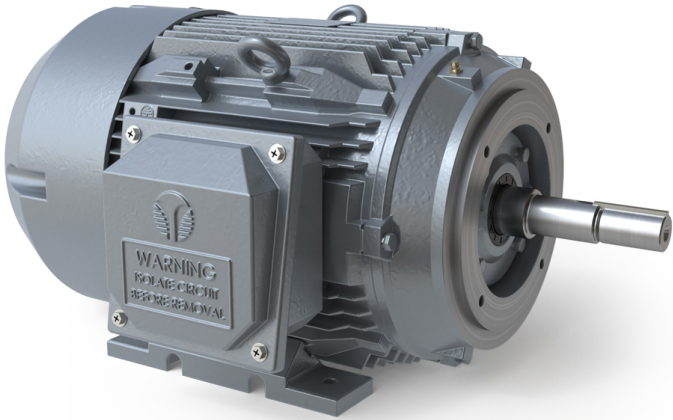
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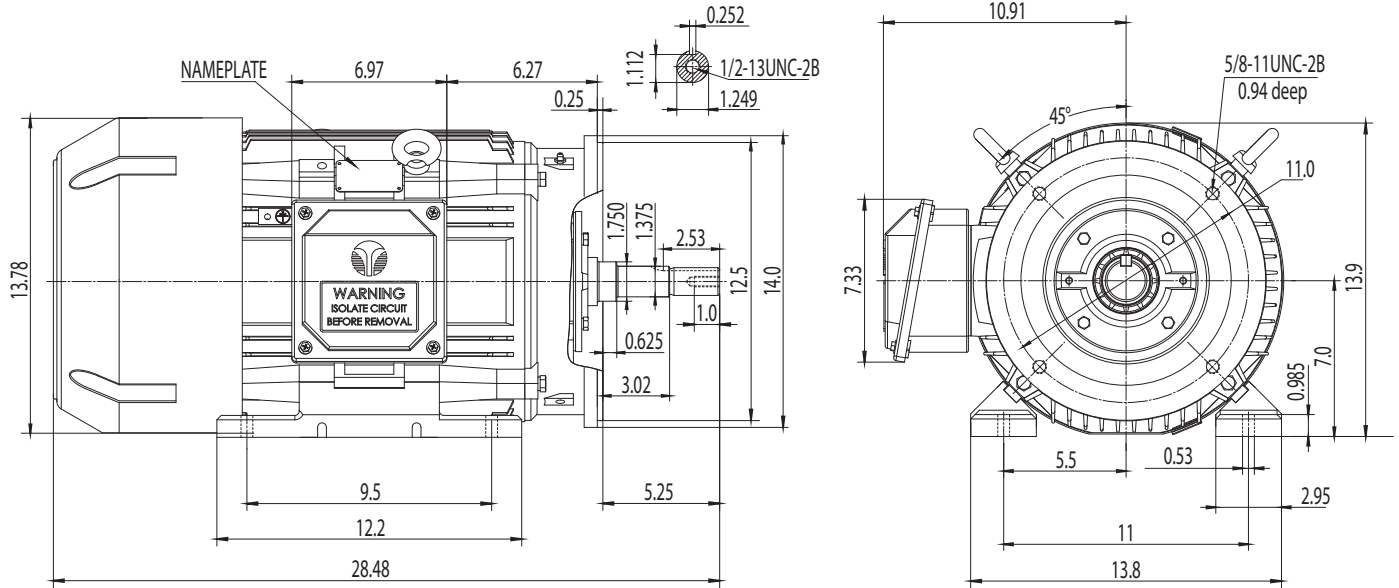
ELECTRICAL DATA		
Rated Motor Output Power	25	HP
	-	kW
Rated Motor Speed	1775	r/min 60Hz
	1460	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	58.2/29.1	A (I _n) @ 60Hz
	70/35	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	271.1	A (I _n) @ 60Hz
FI Current @ 208V	64.32	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	H	50Hz
Nominal Efficiency	93.6	% @ 60Hz
Nominal Power Factor	0.86	cosΦ @ 60Hz
Leads (Qty, Size)	12	12
Connection	DD/D	-
Coil Resistance	20.2	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	50.7	°C @ 60Hz
	62	°C @ 50Hz

GENERAL DATA		
Frame Size	284JM	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	395.1 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	NO
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)	3.57	
Sound Pressure @ 3 FT dBA	79.2	
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	25	25
RPM	1775	1460
Voltage	230/460	190/380
Full Load Amps	58.2/29.1	70/35
Service Factor	1.25	1
KVA Code	K	H
Full Load Amps (208V)	64.32	-
Nominal Efficiency	93.6	91.6
Nominal Power Factor	0.86	-
Design	A	
Frame	284JM	
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)	395.1	

NAMEPLATE LAYOUT

TECHTOP		INDUSTRIAL THREE PHASE PUMP MOTOR INVERTER DUTY 1000:1 VT - 1.0 SF	
MODEL		TECHTOPCANADA.COM	
NEMA Premium		60Hz 50Hz	
HP		MFG PN	
RPM		MFG DATE	
VOLT		SER #	
FLA		DESIGN	
SF		FRAME	
KVA CODE		ENCL	
NOM.EFF		IP	
USABLE AT 208V 60Hz		DUTY	
FLA		INS CL	
		AMB	
		WEIGHT	
BEARING SIZE		lbs	
DE	ODE	Energy Verified	
GREASE: MOBIL POLYREX EM		IEEE 45 MARINE DUTY	
MADE IN CHINA CLASS 1, DIV 2, GROUPS A, B, C AND D			

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

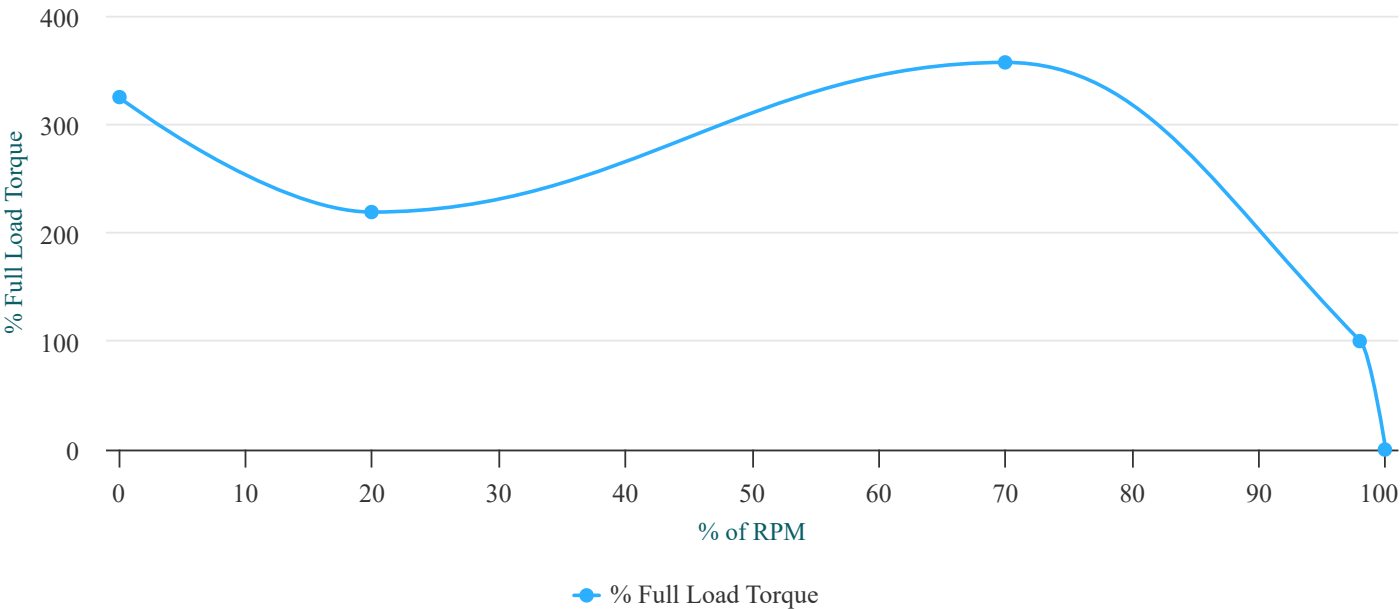
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Model **JMC0254DP**
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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	240.4	325	Start Configuration	DOL
Pull-Up Torque	162	219	Starting Current (A)	271.1
Breakdown Torque	264.1	357	No-Load Current (A)	14.3
Full Load Torque	74	100	No-Load Power Factor	-

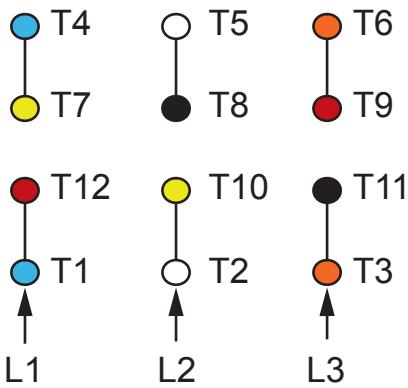
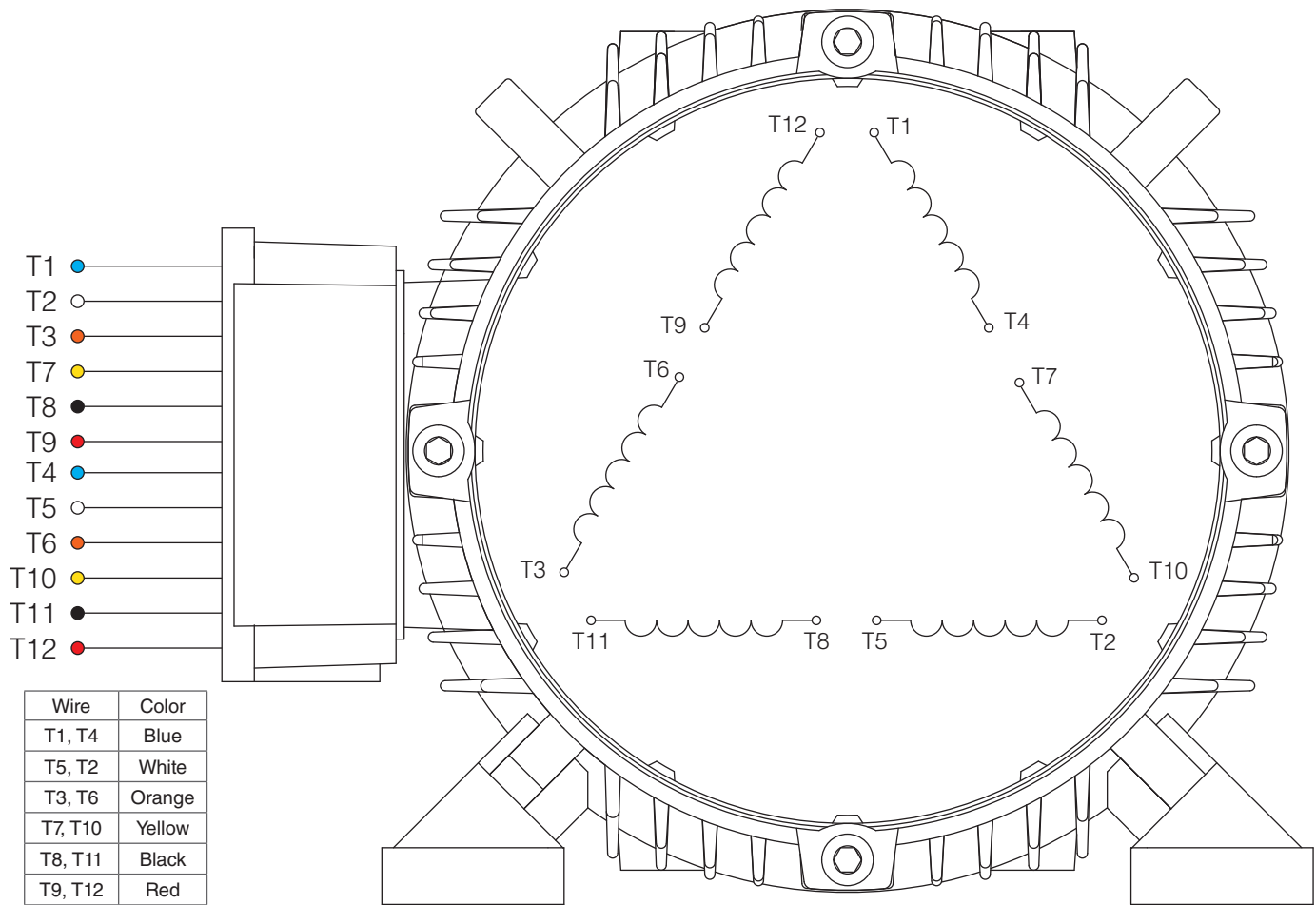
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	15.6	19.2	24.2	30.0	33.8	33.8
Efficiency (%)	88.5	92.5	93.3	93.1	92.8	92.8
Speed (r/min)	1794.0	1789.0	1783.0	1776.0	1772.0	1772.0
Power Factor (cosΦ)	0.42	0.65	0.77	0.83	0.85	0.85
Input Power (kW)	5.2	10.0	14.9	19.9	22.9	22.9

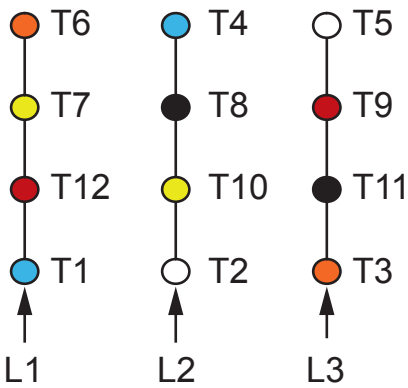
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HIGH VOLTAGE
(Δ)



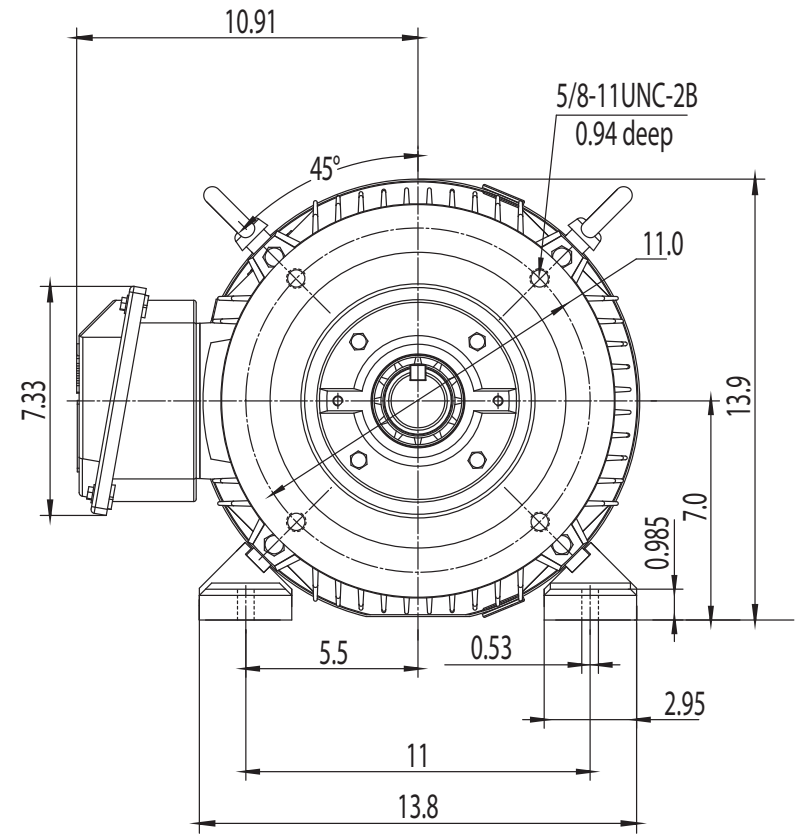
LOW VOLTAGE
(ΔΔ)

- 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



NEMA 3Ø DD/D 12-Lead Dual Voltage

DRAWING NUMBER:	NEMA-3-12-DD-D	ISSUED DATE	29/10/25
CONNECTION:	DD/D	PREMIUM JM-JP PUMP MOTORS	
NUMBER OF LEADS:	12		
THERMAL PROTECTION:	-		



DRAWING NUMBER:	GR3-CI-TF-284JM-CFC	ISSUED DATE	29/10/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM JM-JP PUMP MOTORS	
CASING MATERIAL:	Cast Iron		