

NEMA

Model JMC0156DP
MFG PN: T284T 15U6B

Model JMC0156DP

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
JMC0156DP	15	1180	230/460	3	60	284JM	Rigid/C-Flange	TEFC

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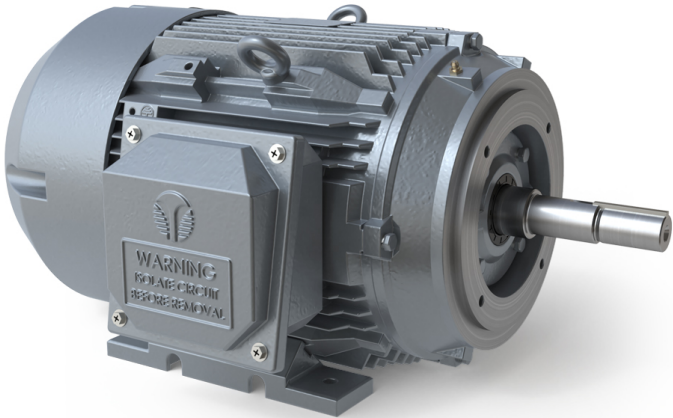
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ELECTRICAL DATA		
Rated Motor Output Power	15	HP
	-	kW
Rated Motor Speed	1180	r/min 60Hz
	970	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	37.8/18.9	A (I _n) @ 60Hz
	45/22.5	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	156.9	A (I _n) @ 60Hz
FI Current @ 208V	41.82	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	H	50Hz
Nominal Efficiency	91.7	% @ 60Hz
Nominal Power Factor	0.81	cosΦ @ 60Hz
Leads (Qty, Size)	12	12
Connection	DD/D	-
Coil Resistance	30	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	41.9	°C @ 60Hz
	57.2	°C @ 50Hz

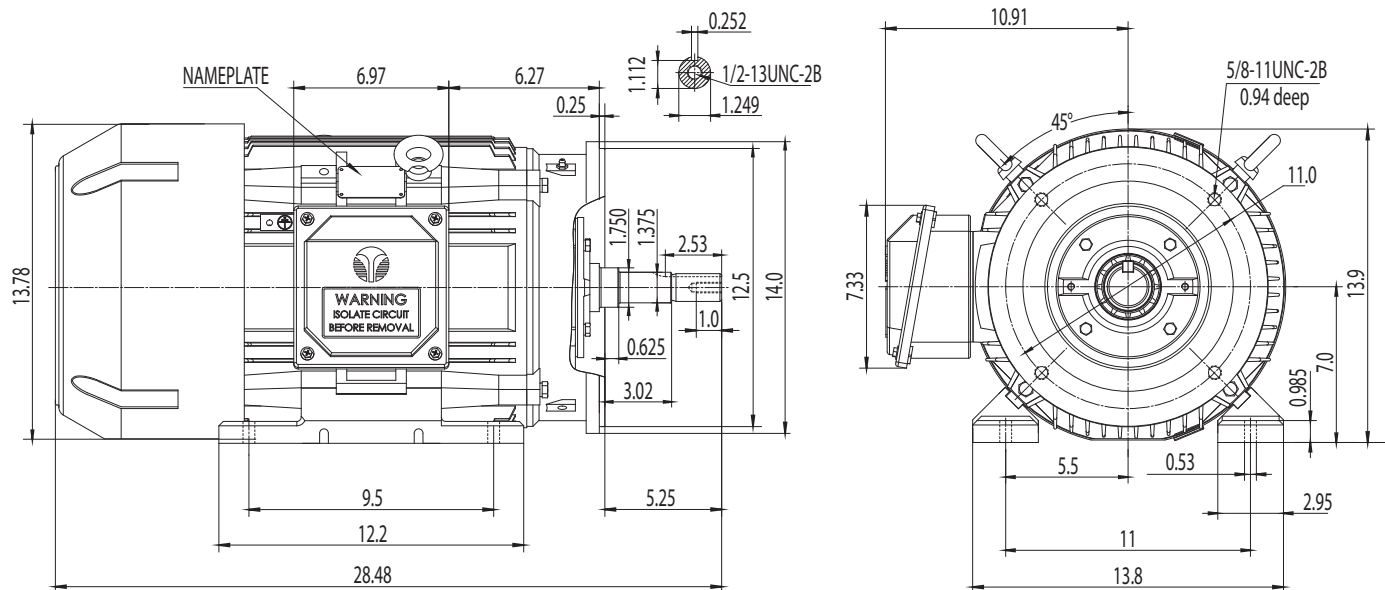
GENERAL DATA		
Frame Size	284JM	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	392.9 lbs.	
Casing Material / Fan Cover	Cast Iron	Cast Iron
Shaft Material	304 SS	
NEMA Design	A	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / 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)	5.73	
Sound Pressure @ 3 FT dBA	71.2	
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	15	15
RPM	1180	970
Voltage	230/460	190/380
Full Load Amps	37.8/18.9	45/22.5
Service Factor	1.25	1
KVA Code	L	H
Full Load Amps (208V)	41.82	-
Nominal Efficiency	91.7	89.8
Nominal Power Factor	0.81	-
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)	392.9	

NAMEPLATE LAYOUT

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

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

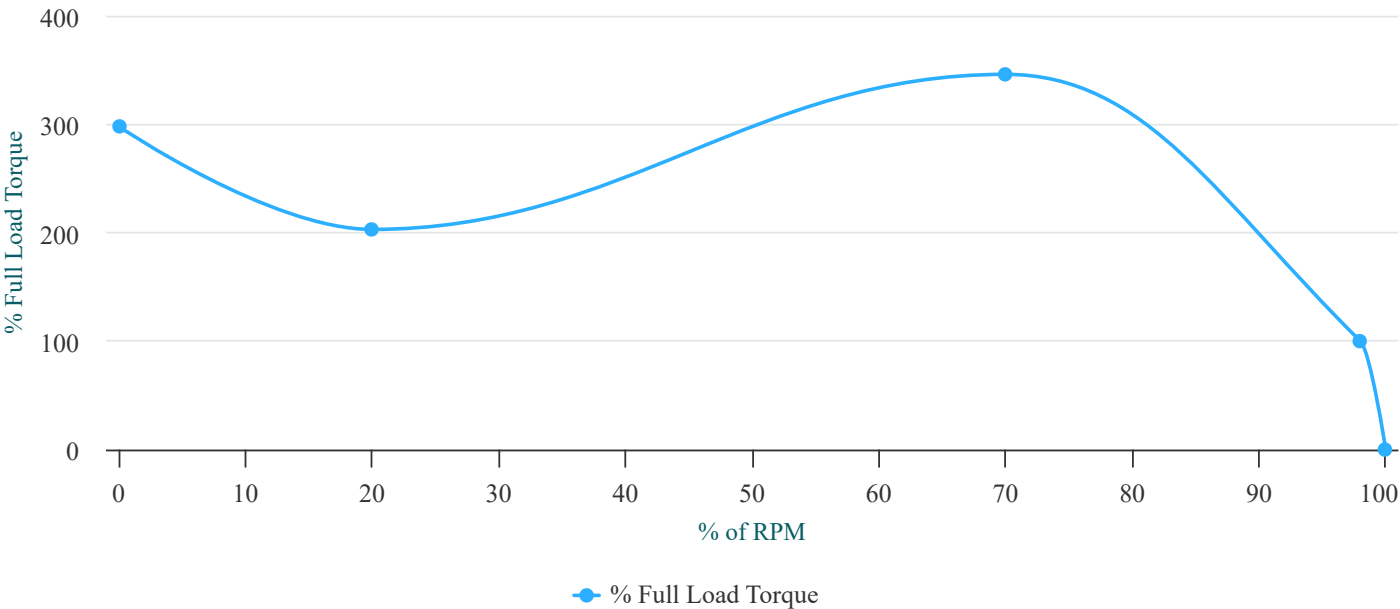
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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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	199	298	Start Configuration	DOL
Pull-Up Torque	135.5	203	Starting Current (A)	156.9
Breakdown Torque	231	346	No-Load Current (A)	11.4
Full Load Torque	66.8	100	No-Load Power Factor	-

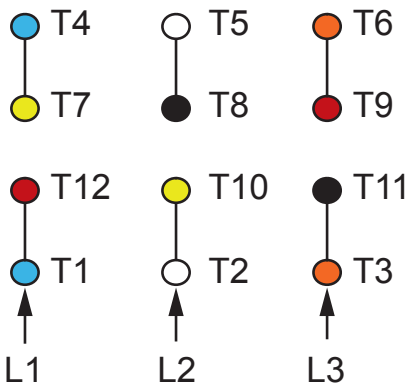
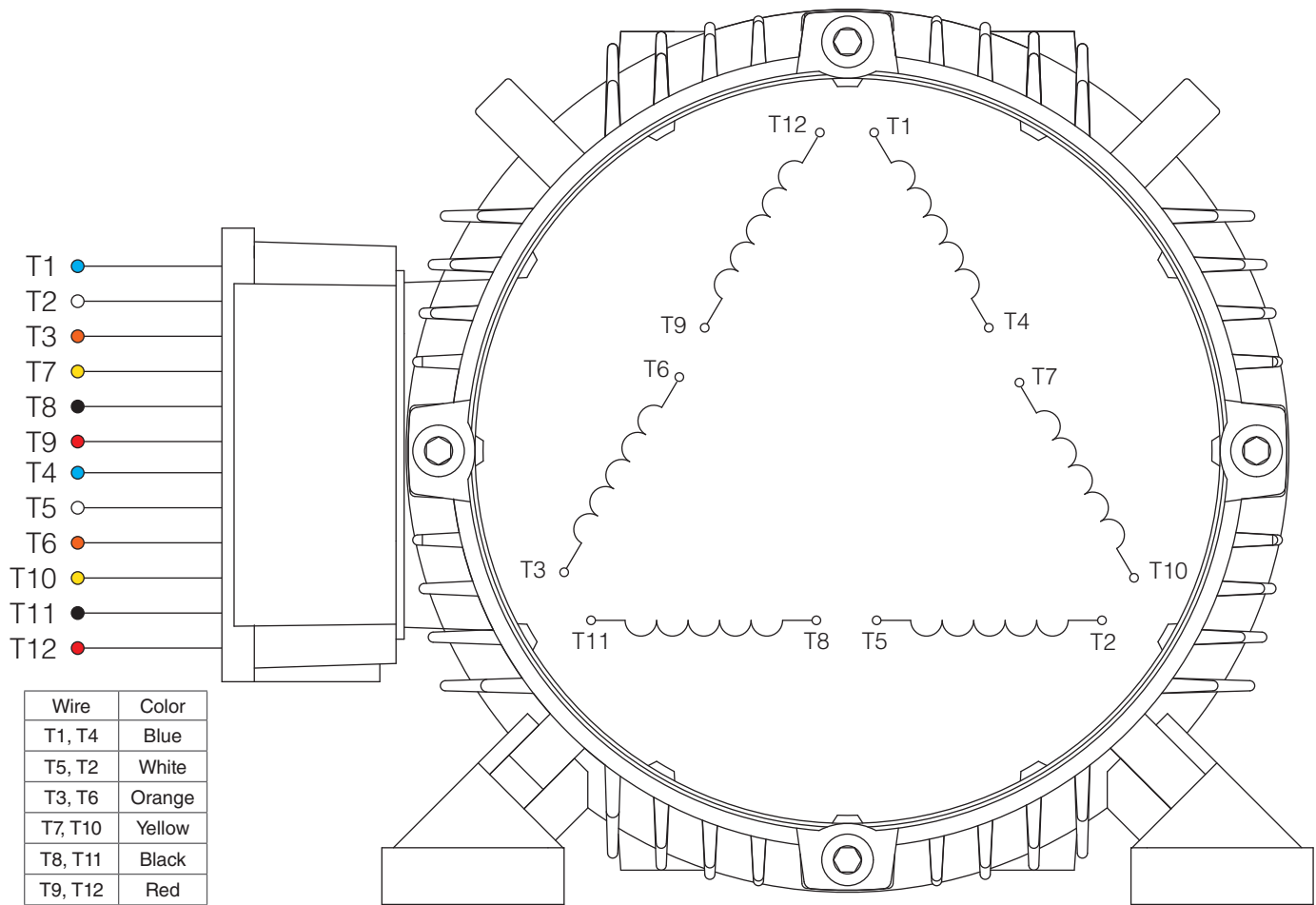
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	12.2	14.1	16.8	20.1	23.9	23.9
Efficiency (%)	84.1	89.9	91.3	91.4	91	91
Speed (r/min)	1197	1193	1190	1186	1182	1182
Power Factor (cosΦ)	0.34	0.54	0.67	0.75	0.79	0.79
Input Power (kW)	3.27	6.12	9.04	12.03	15.12	15.12

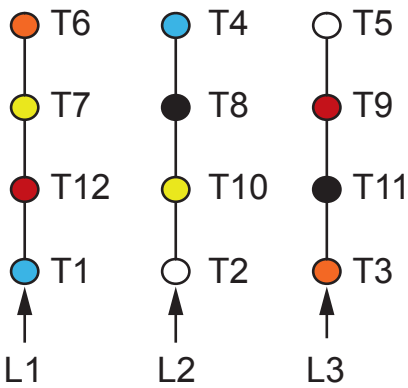
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HIGH VOLTAGE
(Δ)



LOW VOLTAGE
(ΔΔ)

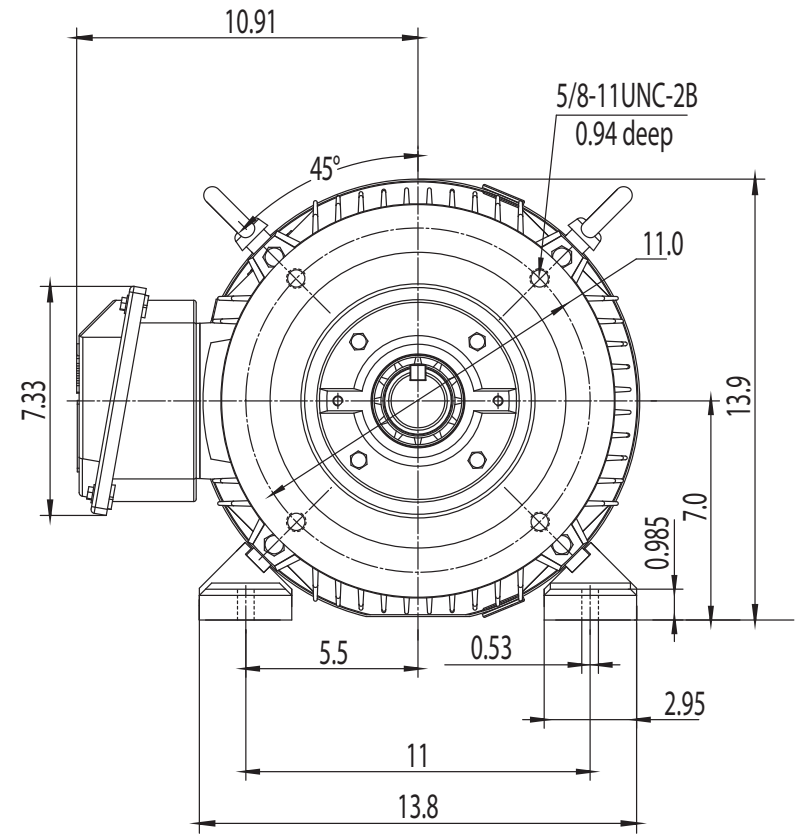
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



DRAWING NUMBER:	NEMA-3-12-DD-D
CONNECTION:	DD/D
NUMBER OF LEADS:	12
THERMAL PROTECTION:	-

NEMA 3Ø DD/D 12-Lead Dual Voltage

ISSUED DATE	08/09/25
PREMIUM JM-JP PUMP MOTORS	



DRAWING NUMBER:	GR3-CI-TF-284JM-CFC	ISSUED DATE	08/09/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM JM-JP PUMP MOTORS	
CASING MATERIAL:	Cast Iron		