

NEMA

Model JMA0004DP
MFG PN: T143T 1U4B

Model JMA0004DP

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
JMA0004DP	1	1730	230/460	3	60	143JM	Rigid/C-Flange	TEFC

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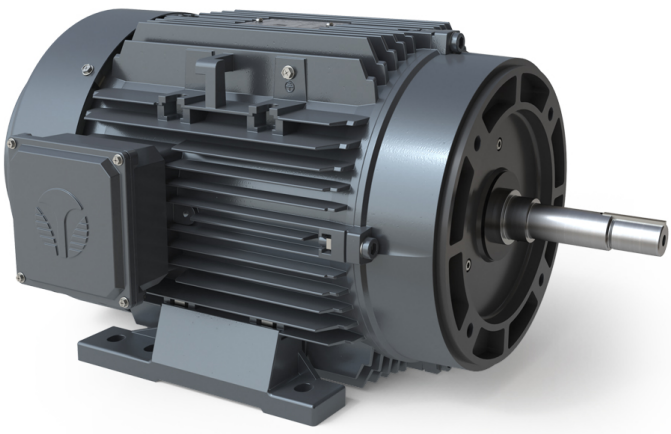
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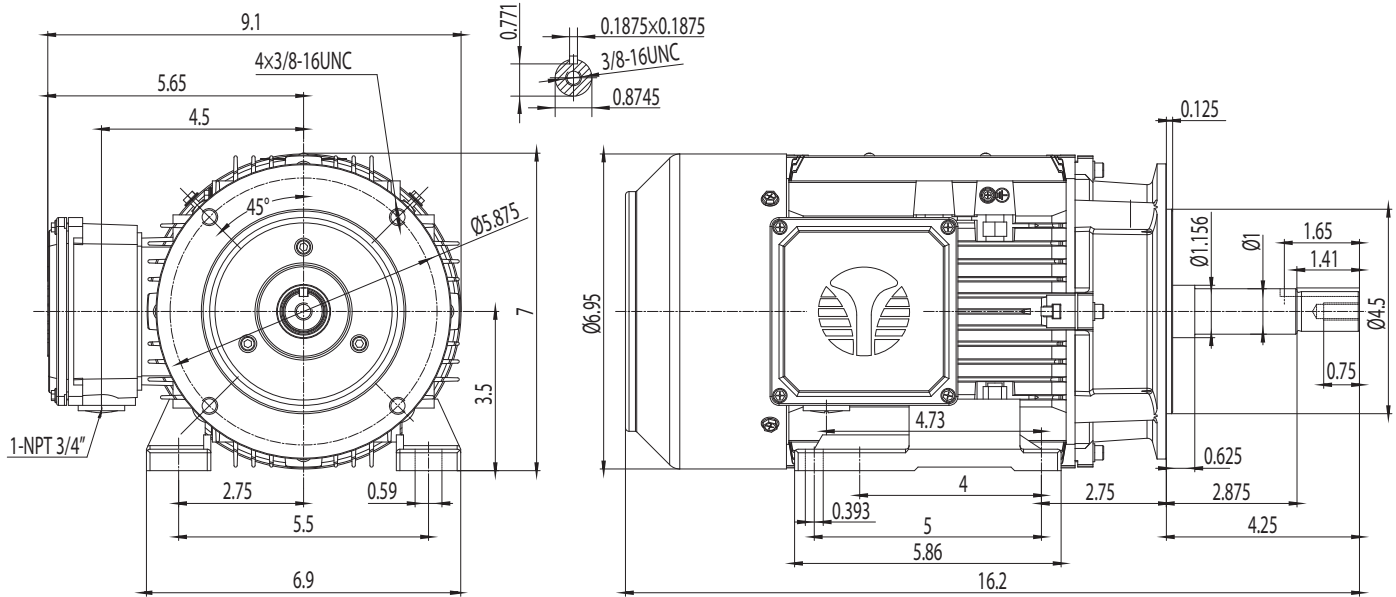
ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1730	r/min 60Hz
	1425	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	2.98/1.49	A (I _n) @ 60Hz
	3.50/1.75	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	9.54	A (I _n) @ 60Hz
FI Current @ 208V	3.1	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	G	50Hz
Nominal Efficiency	85.5	% @ 60Hz
Nominal Power Factor	0.74	cosΦ @ 60Hz
Leads (Qty, Size)	9	18
Connection	YY/Y	-
Coil Resistance	-	Ω
Start Capacitor	-	µF/V
Run Capacitor	-	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	1000:1	2 - 60
Constant Torque	15:1	4 - 60
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	36	°C @ 60Hz
	45	°C @ 50Hz

GENERAL DATA		
Frame Size	143JM	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	28 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	304 SS	
NEMA Design	B	
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	6206 2RS	
Bearing ODE Side	6205 2RS	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	-	
Sound Pressure @ 3 FT dBA	62.2	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	A, B, C & D	
Temperature Code	T2D	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	1
RPM	1730	1425
Voltage	230/460	190/380
Full Load Amps	2.98/1.49	3.50/1.75
Service Factor	1.25	1
KVA Code	K	G
Full Load Amps (208V)	3.1	-
Nominal Efficiency	85.5	83.2
Nominal Power Factor	0.74	-
Design	B	
Frame	143JM	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6206 2RS	
Opposite Drive End Bearing	6205 2RS	
Weight (lbs)	28	

NAMEPLATE LAYOUT

TECHTOP INDUSTRIAL THREE PHASE PUMP MOTOR
INVERTER DUTY 1000:1 VT - 1.0 SF

MODEL	60Hz	50Hz	MFG PN
HP			MFG DATE
RPM			SER #
VOLT			DESIGN
FLA			FRAME
SF			ENCL / IP
KVA CODE			DUTY
NOM.EFF			INS CL
EFF 75%			AMB
PF			DE
USABLE AT 208V			ODE
			WEIGHT

NEMA Premium
TECHTOPCANADA.COM
CLASS 1, DIV 2, GROUPS A, B, C AND D
MADE IN CHINA

CC088A
E323353
SP
224653
Energy Verified Only

VFD DUTY (S.F. 1.0)	RATIO	Hz*
Variable Torque	1000:1	2 - 60
Constant Torque	15:1	4 - 60

*For max speed please contact Techtop Canada

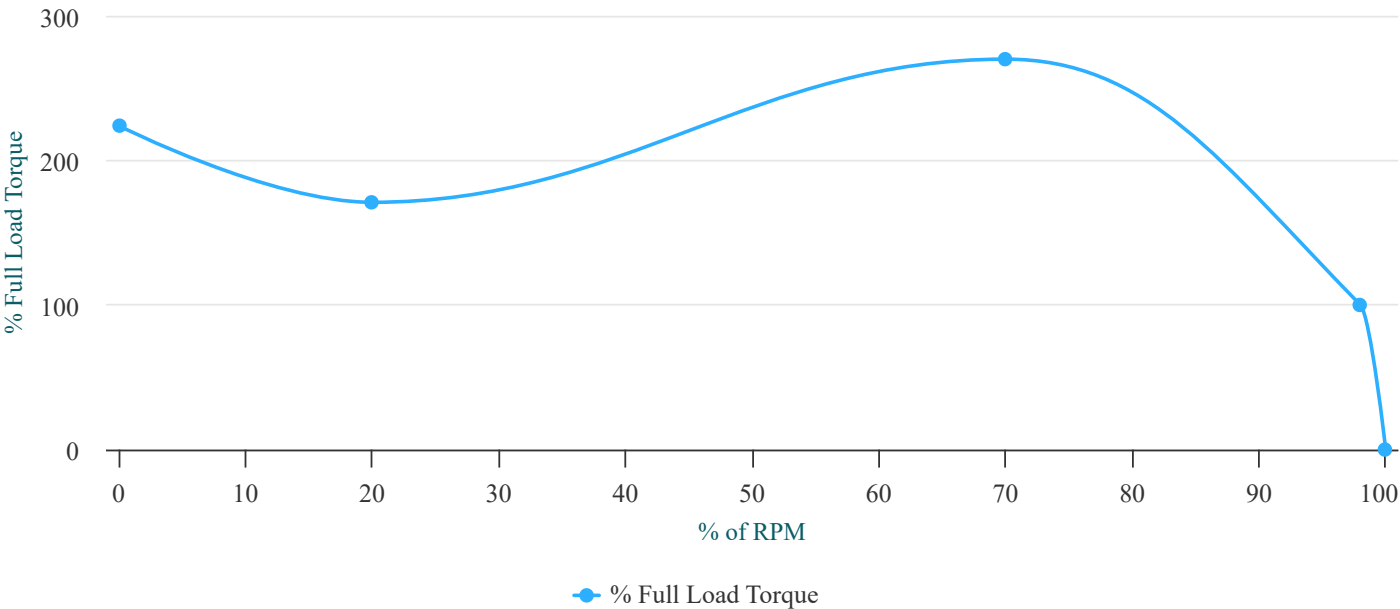
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Division II
Groups	A, B, C & D

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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	3	224	Start Configuration	DOL
Pull-Up Torque	5.2	171	Starting Current (A)	9.54
Breakdown Torque	8.2	270	No-Load Current (A)	0.8
Full Load Torque	6.8	100	No-Load Power Factor	0.09

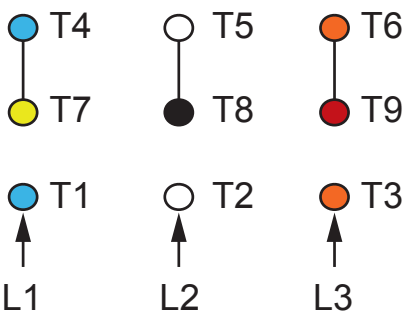
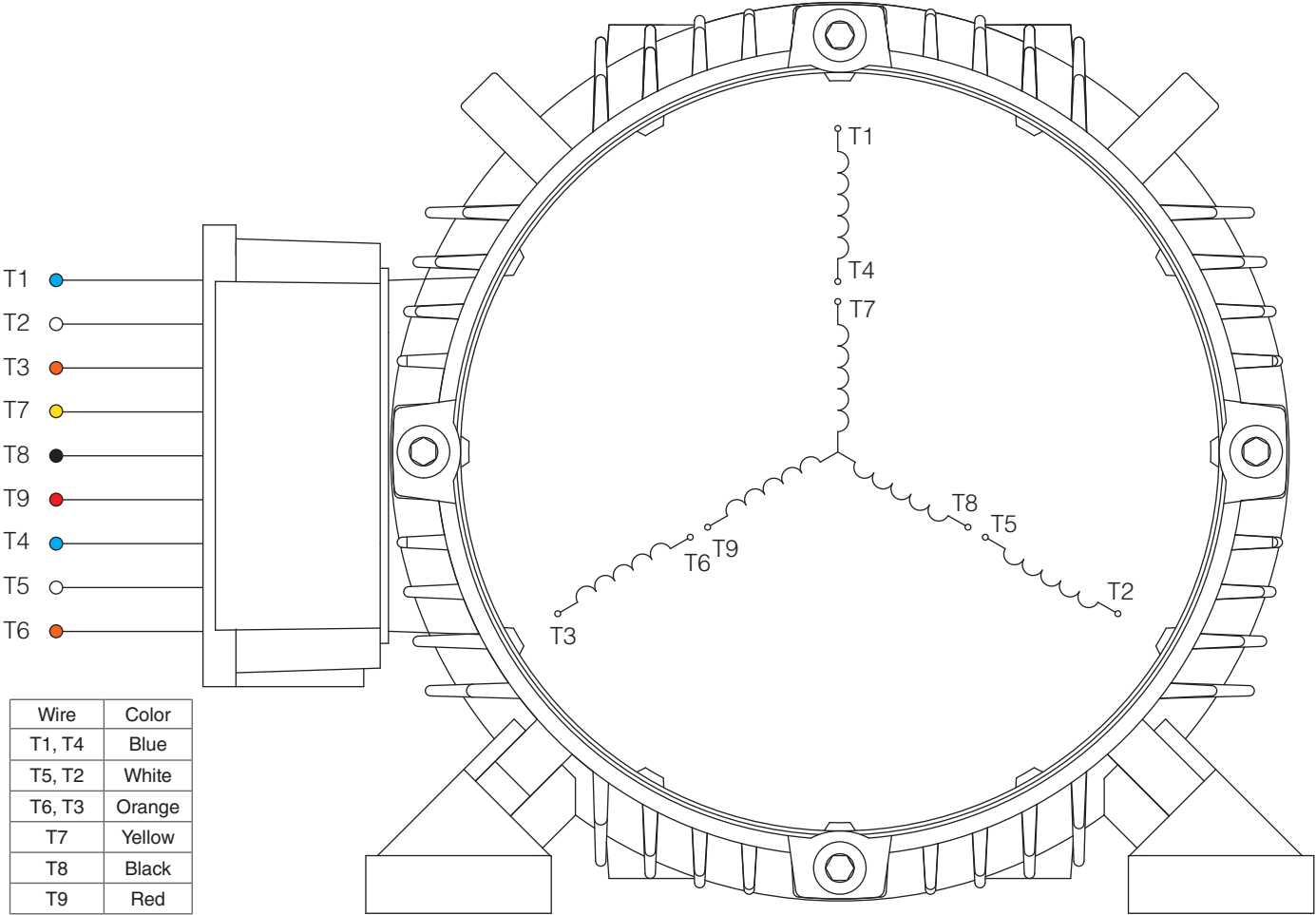
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	0.9	1	0.1	1.5	1.8	1.8
Efficiency (%)	73.6	82.1	84.1	83.8	82.4	82.4
Speed (r/min)	1786	1774	1759	1742	1722	1722
Power Factor (cosΦ)	0.36	0.56	-	0.75	0.79	0.79
Input Power (kW)	0.26	0.46	0.67	0.9	1.14	1.14

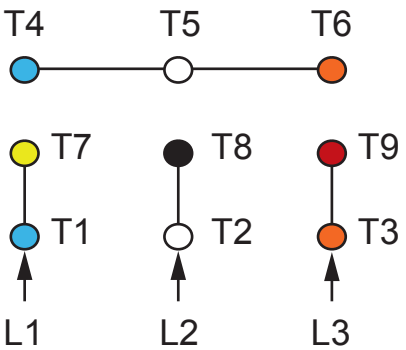
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HIGH VOLTAGE
(Y)



LOW VOLTAGE
(YY)

- 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 YY/Y 9-Lead Dual Voltage

DRAWING NUMBER:	NEMA-3-9-YY-Y	ISSUED DATE	07/08/25
CONNECTION:	YY/Y	PREMIUM JM-JP PUMP MOTORS	
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-		



NEMA Premium TEFC 143JM

DRAWING NUMBER:	GR3-AL-TF-140JM	ISSUED DATE	07/08/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM JM-JP PUMP MOTORS	
CASING MATERIAL:	Cast Aluminum		