

NEMA

Model JMA0024FP
MFG PN: T145T 2U4B

Model JMA0024FP

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
JMA0024FP	2	1740	575	3	60	145JM	Rigid/C-Flange	TEFC

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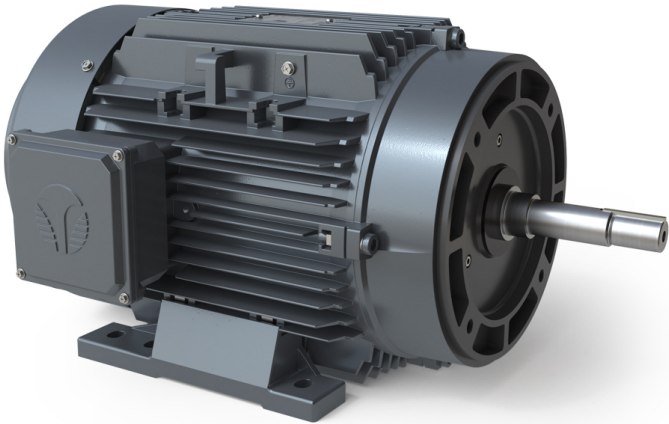
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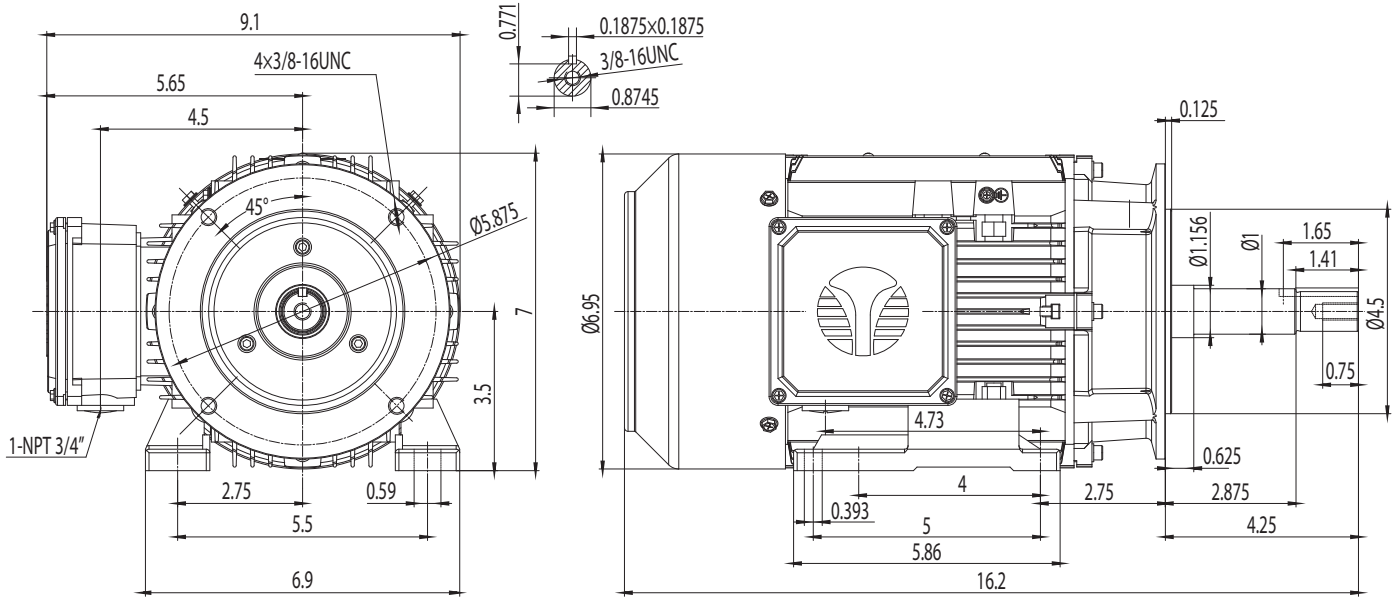
ELECTRICAL DATA		
Rated Motor Output Power	2	HP
	-	kW
Rated Motor Speed	1740	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	2.23	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	16.58	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	86.5	% @ 60Hz
Nominal Power Factor	0.78	cosΦ @ 60Hz
Leads (Qty, Size)	3	18
Connection	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	50	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	145JM	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	39.5 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	2	-
RPM	1740	-
Voltage	575	-
Full Load Amps	2.23	-
Service Factor	1.25	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	86.5	-
Nominal Power Factor	0.78	-
Design	B	
Frame	145JM	
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)	39.5	

NAMEPLATE LAYOUT

TECHTOP		INDUSTRIAL THREE PHASE PUMP MOTOR	
		INVERTER DUTY 1000:1 VT - 1.0 SF	
MODEL		MFG PN	
60Hz	50Hz	MFG DATE	
HP		SER #	
RPM		DESIGN	
VOLT		FRAME	
FLA		ENCL / IP	
SF		DUTY	
KVA CODE		INS CL	
NOM.EFF		AMB	
EFF 75%		DE	
PF		ODE	
USABLE AT 208V		WEIGHT	lbs
CLASS 1, DIV 2, GROUPS A, B, C AND D		MADE IN CHINA	

NEMA Premium
TECHTOPCANADA.COM

CC088A
E323353
SP
C224653
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

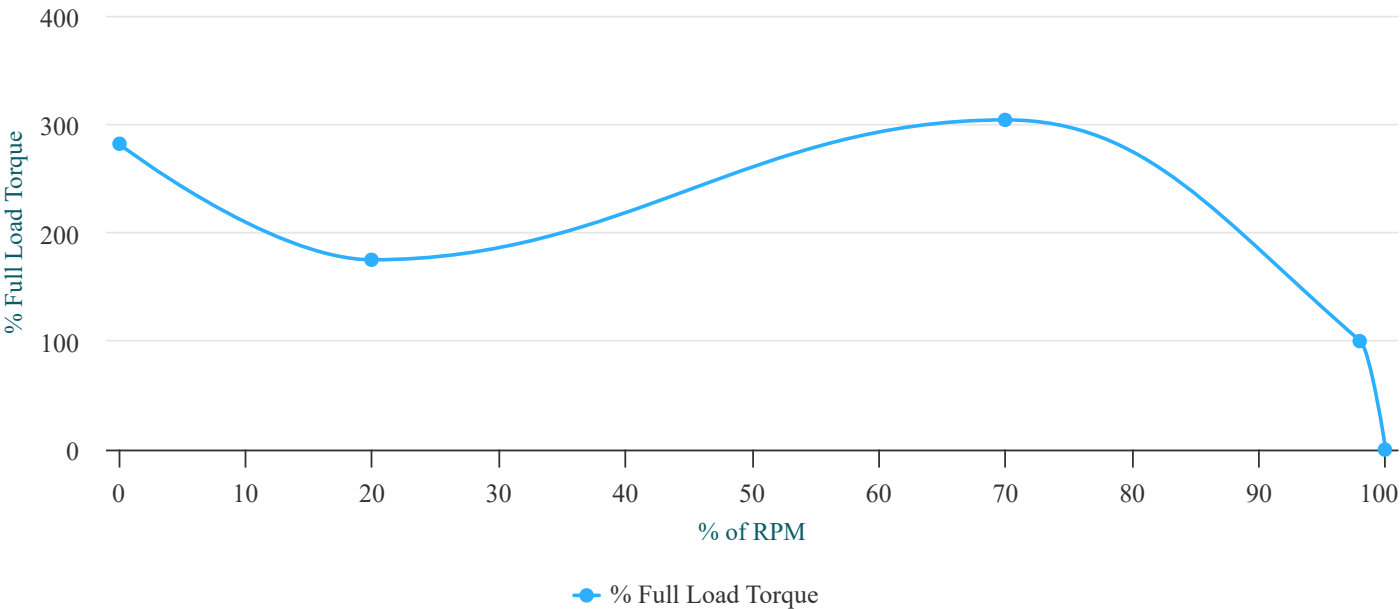
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Division II
Groups	A, B, C & D

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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	17	282	Start Configuration	DOL
Pull-Up Torque	10.6	175	Starting Current (A)	16.58
Breakdown Torque	18.4	304	No-Load Current (A)	1.2
Full Load Torque	6	100	No-Load Power Factor	0.07

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.2	1.5	1.8	2.2	2.7	2.7
Efficiency (%)	79.7	86.3	87.6	87.2	86.0	86.0
Speed (r/min)	1785.0	1772.0	1758.0	1730.0	1722.0	1722.0
Power Factor (cosΦ)	0.38	0.59	0.71	0.78	0.81	0.81
Input Power (kW)	0.5	0.9	1.3	1.7	2.2	2.2

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- 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-3-3-Y
CONNECTION:	Y
NUMBER OF LEADS:	3
THERMAL PROTECTION:	-

NEMA 3Ø Y 3-Lead Single Voltage

ISSUED DATE	29/10/25
PREMIUM JM-JP PUMP MOTORS	



NEMA Premium TEFC 145JM

DRAWING NUMBER:	GR3-AL-TF-140JM	ISSUED DATE	29/10/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM JM-JP PUMP MOTORS	
CASING MATERIAL:	Cast Aluminum		