

NEMA

Model DPA0206F-TC
MFG PN: TDA 286T20U6B

Model DPA0206F-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPA0206F-TC	20	1180	575	3	60	286TC	Rigid/C-Flange	ODP

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
EMAIL info@techtopcanada.com

Montreal

TOLL FREE 1.844.354.5111
PHONE 514.354.1002
EMAIL infoQC@techtopcanada.com

Moncton

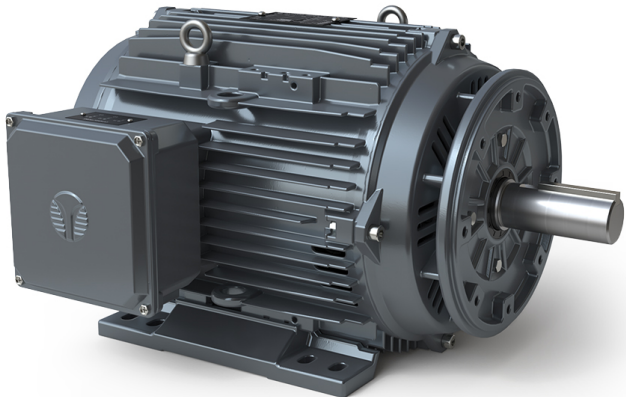
PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techtopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techtopcanada.com



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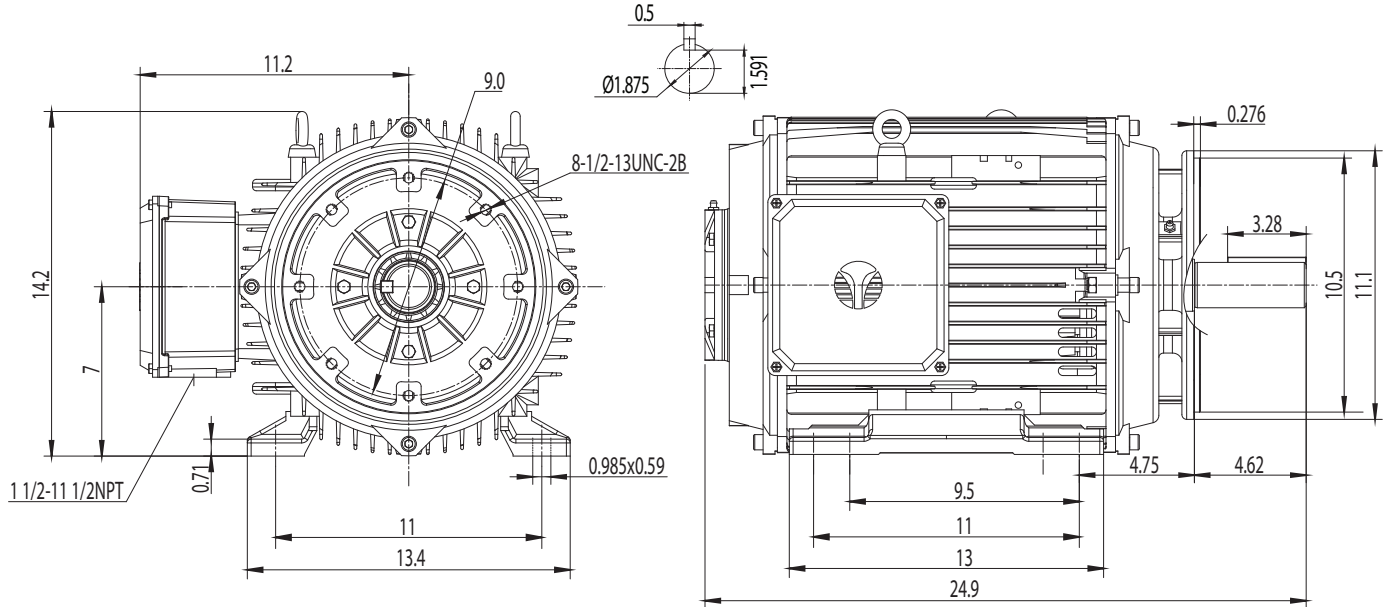
ELECTRICAL DATA		
Rated Motor Output Power	20	HP
	15	kW
Rated Motor Speed	1180	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	20.79	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	184.64	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	92.4	% @ 60Hz
Nominal Power Factor	0.78	cosΦ @ 60Hz
Leads (Qty, Size)	6	12
Connection	D	-
Coil Resistance	-	Ω
Start Capacitor	-	µF/V
Run Capacitor	-	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	59.7	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	286TC	
Enclosure	ODP	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	322 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	B	
Degree of Protection (IP)	23	
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)	-	
Sound Pressure @ 3 FT dBA	-	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	-	
Temperature Code	-	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	20	-
RPM	1180	-
Voltage	575	-
Full Load Amps	20.79	-
Service Factor	1.25	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	92.4	-
Nominal Power Factor	0.78	-
Design	B	
Frame	286TC	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6311 C3	
Opposite Drive End Bearing	6311 C3	
Weight (lbs)	322	

NAMEPLATE LAYOUT

TECHTOP		INDUSTRIAL THREE PHASE MOTOR	
		INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL		MFG PN	
60Hz	50Hz	MFG DATE	
HP		SER #	
RPM		DESIGN	
VOLT		FRAME	
FLA		ENCL / IP	ODP 23
SF		DUTY	
KVA CODE		INS CL	
NOM.EFF		AMB	
EFF 75%		DE	
PF		ODE	
USABLE AT 208V		WEIGHT	lbs
NEMA Premium		MADE IN CHINA	

VFD DUTY (S.F. 1.0)

Variable Torque
Constant Torque

RATIO

30:1
15:1

Hz*

2 - 60
4 - 60

*For max speed please contact Techtop Canada

HAZARDOUS LOCATIONS

Class / Division
Groups

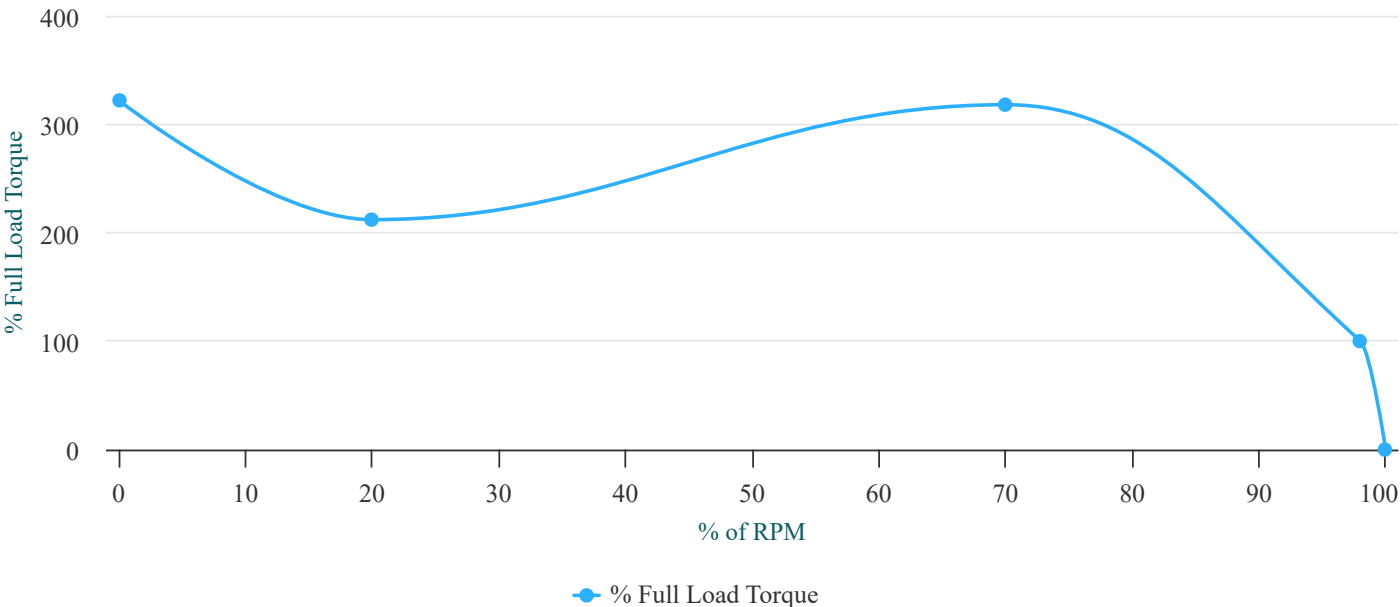
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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	89.1	322	Start Configuration	DOL
Pull-Up Torque	188.8	212	Starting Current (A)	184.64
Breakdown Torque	283.2	318	No-Load Current (A)	11.7
Full Load Torque	286.8	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)	12.6	14.8	17.8	21.6	25.8	25.8
Efficiency (%)	84.5	90.1	91.4	91.4	90.8	90.8
Speed (r/min)	1196	1193	1189	1185	1181	1181
Power Factor (cosΦ)	0.35	0.57	0.69	0.76	0.8	0.8
Input Power (kW)	4.44	8.33	12.31	16.42	20.64	20.64

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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:	D
NUMBER OF LEADS:	6
THERMAL PROTECTION:	-

NEMA 3Ø D 6-Lead Single Voltage

ISSUED DATE	20/06/25
PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	

MFG PN: TDA 286T20U6B



DRAWING NUMBER:	GR3-AL-DP-284(6)TC	ISSUED DATE	20/06/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
CASING MATERIAL:	Cast Aluminum		