

NEMA

Model DPC1002DS
MFG PN: TDC 365TS100U2B

Model DPC1002DS

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
DPC1002DS	100	3560	230/460	3	60	365TS	Rigid	ODP

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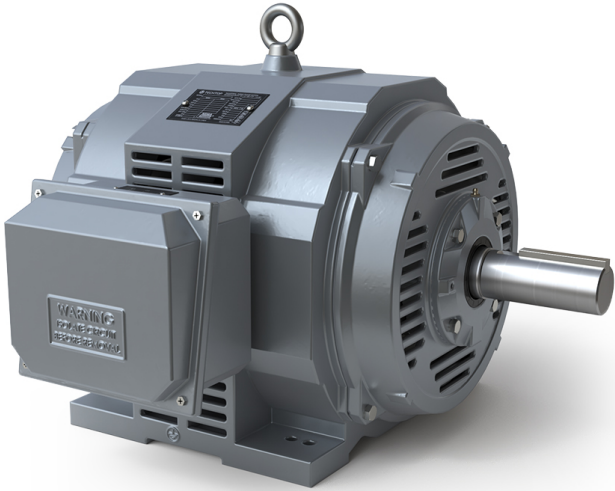
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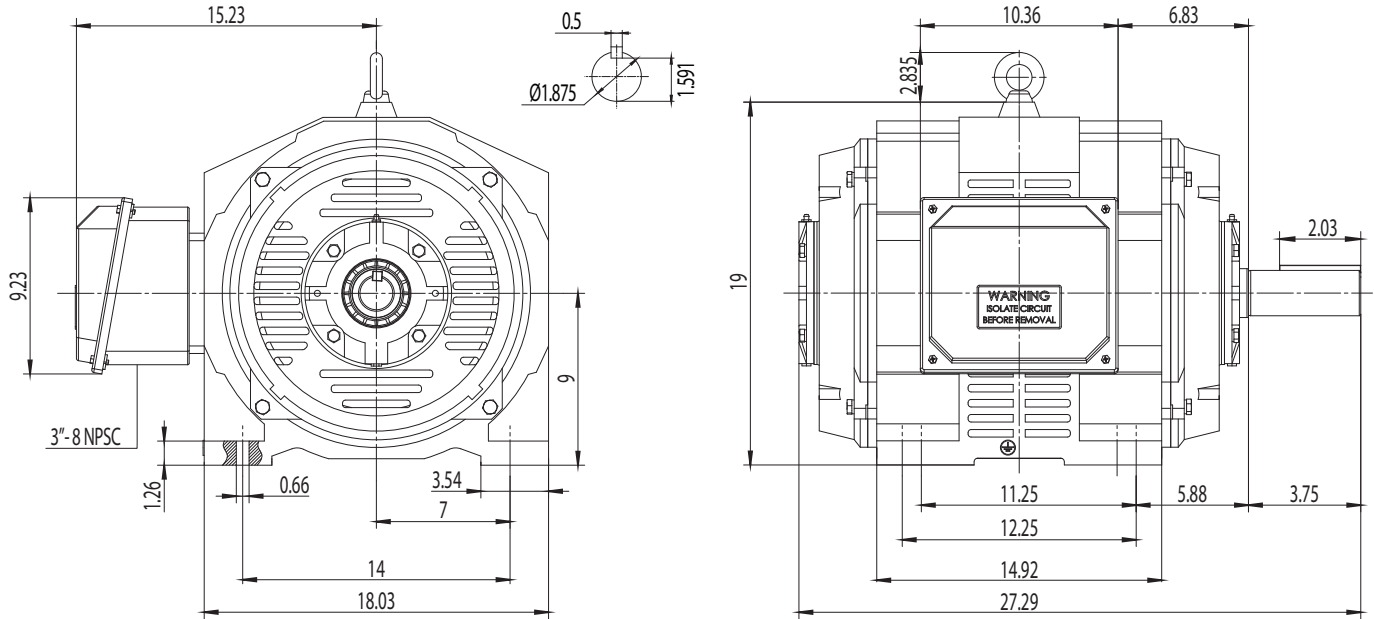
ELECTRICAL DATA		
Rated Motor Output Power	100	HP
	75	kW
Rated Motor Speed	3560	r/min 60Hz
	2950	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	222.3/111.5	A (I _n) @ 60Hz
	272.01/136.01	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	820.9	A (I _n) @ 60Hz
FI Current @ 208V	245.81	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	G	50Hz
Nominal Efficiency	93.6	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	12	6
Connection	DD/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	50	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	365TS	
Enclosure	ODP	
Mounting	Rigid	
Approximate Weight (lbs.)	687 lbs.	
Casing Material / Fan Cover	Cast Iron	-
Shaft Material	1045	
NEMA Design	A	
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	NO	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6313 C3	
Bearing ODE Side	6313 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	100	100
RPM	3560	2950
Voltage	230/460	190/380
Full Load Amps	222.3/111.5	272.01/136.01
Service Factor	1.15	1
KVA Code	J	G
Full Load Amps (208V)	245.81	-
Nominal Efficiency	93.6	92.6
Nominal Power Factor	0.9	0.9
Design	A	
Frame	365TS	
Enclosure Type	ODP	
IP Rating	23	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6313 C3	
Opposite Drive End Bearing	6313 C3	
Weight (lbs)	687	

NAMEPLATE LAYOUT

TECHTOP		INDUSTRIAL THREE PHASE MOTOR INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF	
MODEL		TECHTOPCANADA.COM	
NEMA Premium		60Hz	50Hz
HP			
RPM			
VOLT			
FLA			
SF			
KVA CODE			
NOM.EFF			
USABLE AT 208V 60Hz		BEARING SIZE	
FLA		DE	ODE
		GREASE: MOBIL POLYREX EM	
MADE IN CHINA			
MFG PN		MFG DATE	
SER #		DESIGN	
FRAME		ENCL	
IP		DUTY	
INS CL		AMB	
WEIGHT		lbs	

VFD DUTY (S.F. 1.0)	RATIO	Hz*
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60

*For max speed please contact Techtop Canada

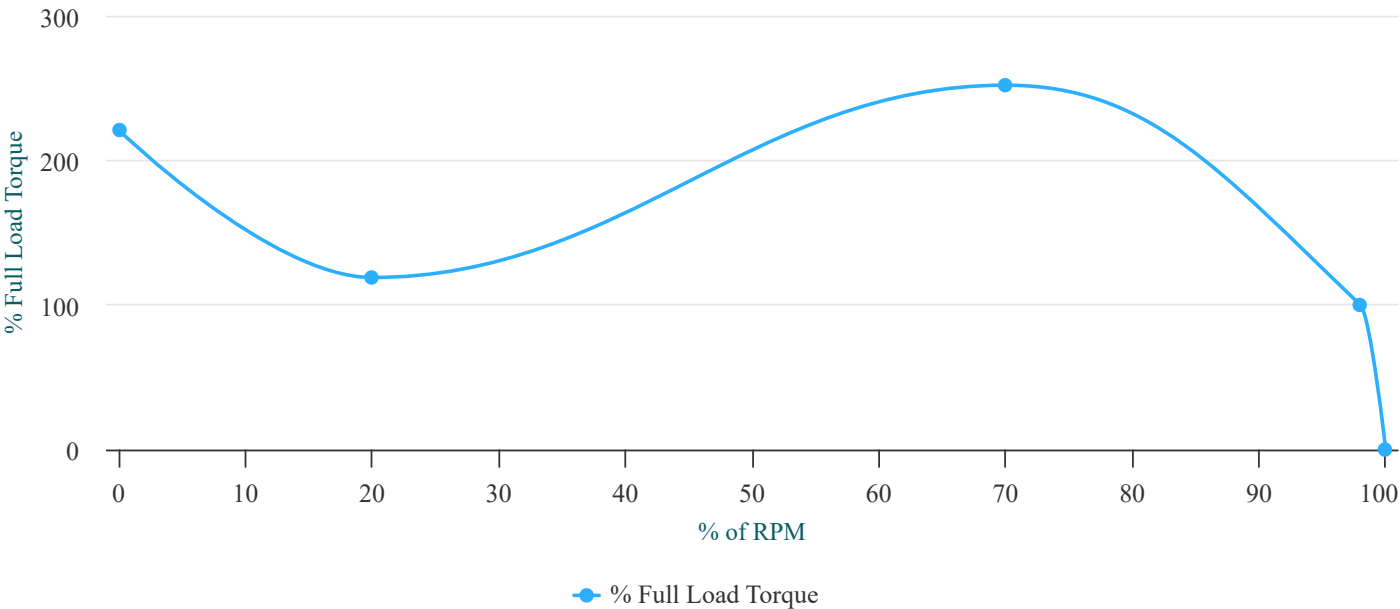
HAZARDOUS LOCATIONS	
Class / Division	-
Groups	-

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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	326.2	221	Start Configuration	DOL
Pull-Up Torque	175.6	119	Starting Current (A)	820.9
Breakdown Torque	371.9	252	No-Load Current (A)	27.5
Full Load Torque	147.6	100	No-Load Power Factor	-

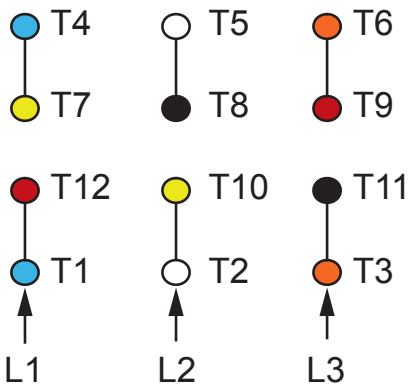
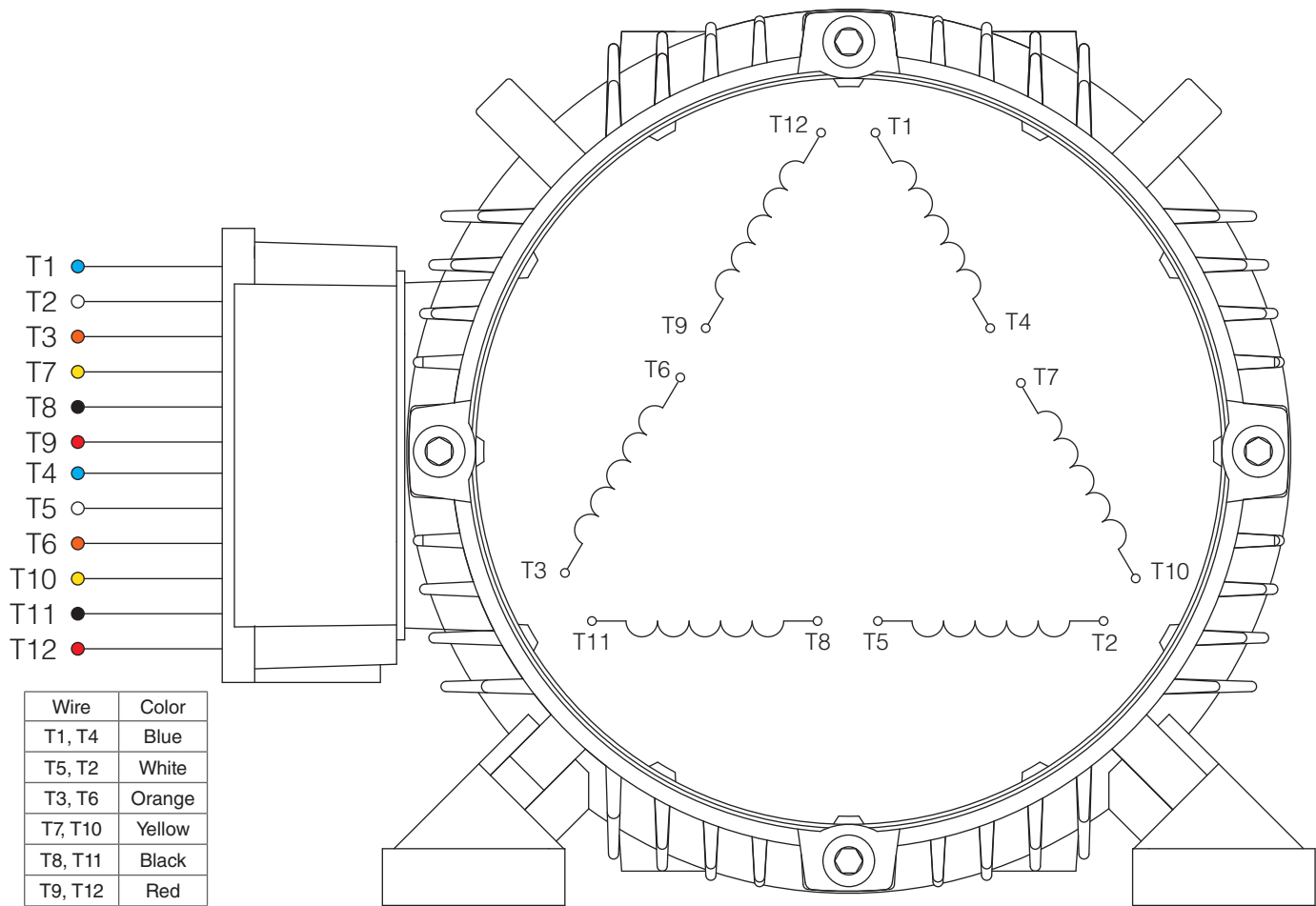
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	38.4	60.1	84.4	111.3	140.3	140.3
Efficiency (%)	91.7	94.1	94.3	93.7	92.8	92.8
Speed (r/min)	3590	3580	3569	3557	3544	3544
Power Factor (cosΦ)	0.67	0.83	0.89	0.9	0.9	0.9
Input Power (kW)	20.46	39.84	59.68	80.03	100.97	100.97

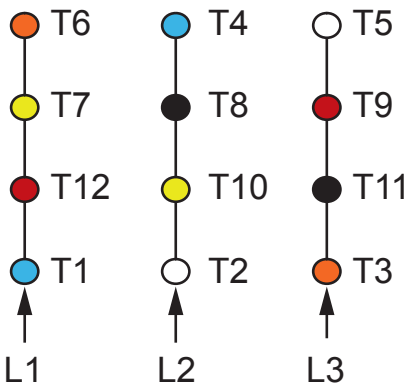
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HIGH VOLTAGE
(Δ)



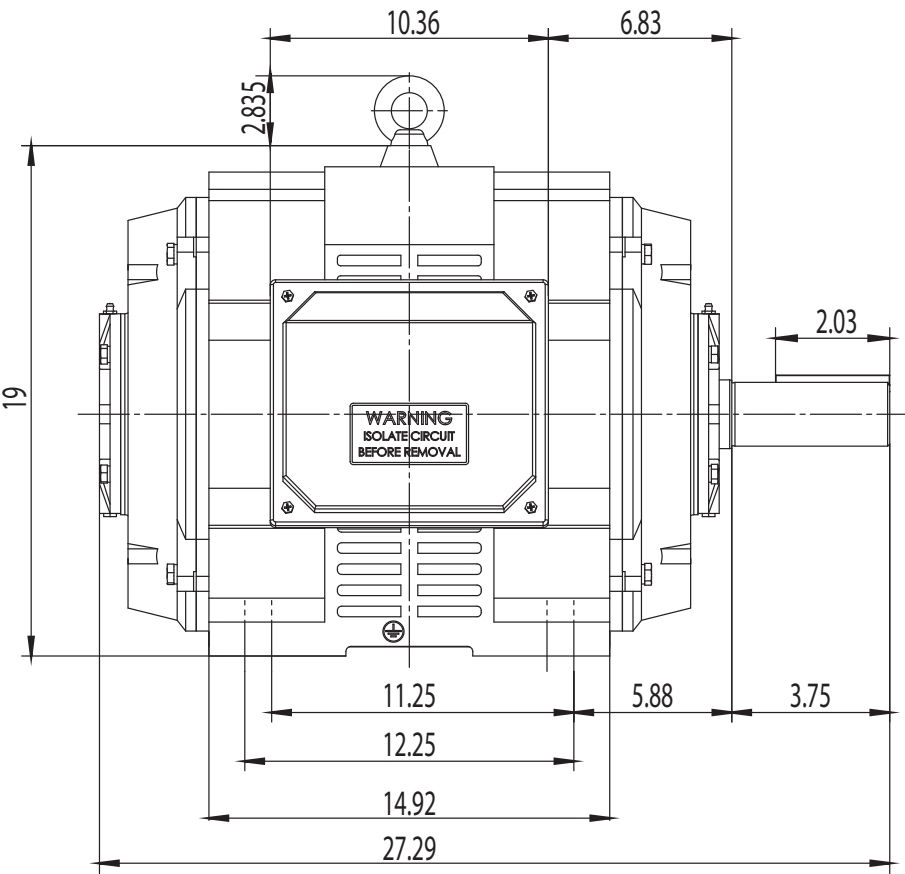
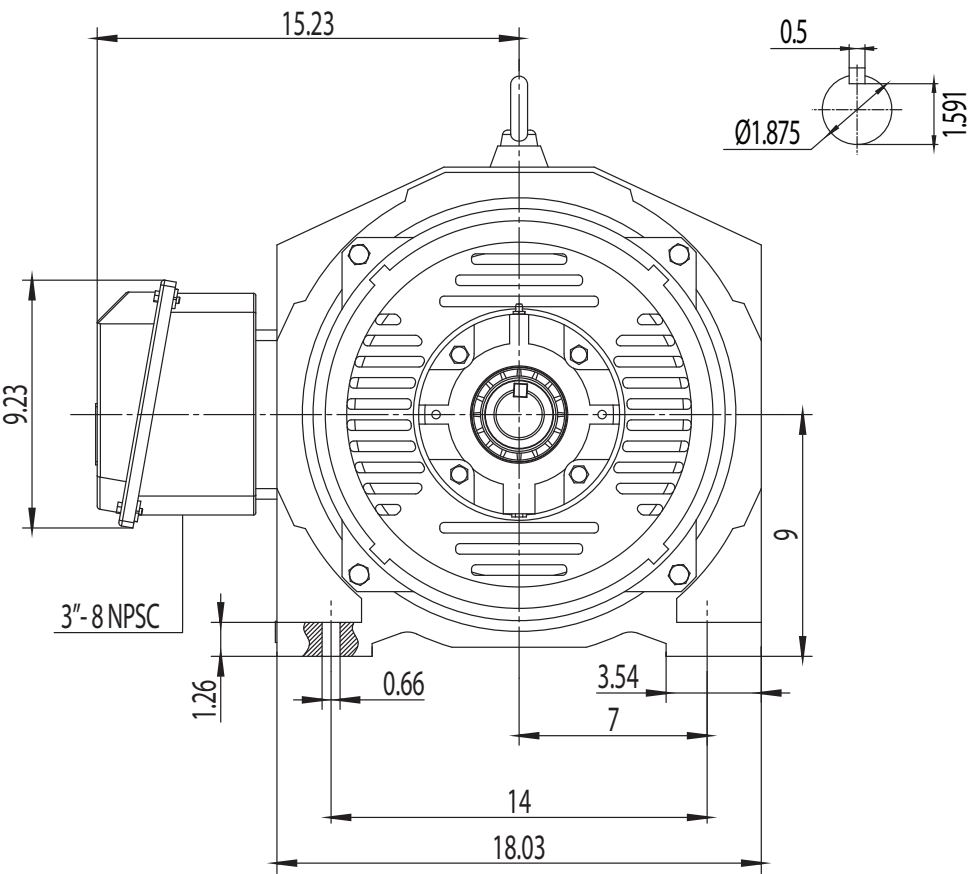
LOW VOLTAGE
(ΔΔ)

- 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	27/06/25
CONNECTION:	DD/D	PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP	
NUMBER OF LEADS:	12		
THERMAL PROTECTION:	-		



NEMA Premium ODP 365TS

DRAWING NUMBER:

GR3-CI-DP-364(5)TS

DIMENSIONS:

Inches

MOUNTING:

Rigid

CASING MATERIAL:

Cast Iron

ISSUED DATE

27/06/25

PREMIUM T-FRAME ALUMINUM & CAST IRON MOTORS, ODP