

NEMA

Model **GRA0402DS-01**
MFG PN: T284TS40U2B

Model **GRA0402DS-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GRA0402DS-01	40	3550	230/460	3	60	284TS	Rigid	TEFC

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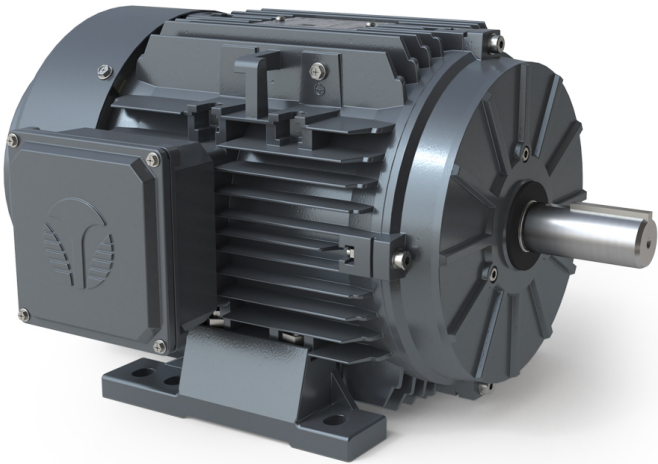
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ELECTRICAL DATA		
Rated Motor Output Power	40	HP
	-	kW
Rated Motor Speed	3550	r/min 60Hz
	2930	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	89.6/44.8	A (I _n) @ 60Hz
	109/54.5	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	98.9	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	G	50Hz
Nominal Efficiency	92.4	% @ 60Hz
Nominal Power Factor	0.92	cosΦ @ 60Hz
Leads (Qty, Size)	12	12
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	-	°C @ 60Hz
	-	°C @ 50Hz

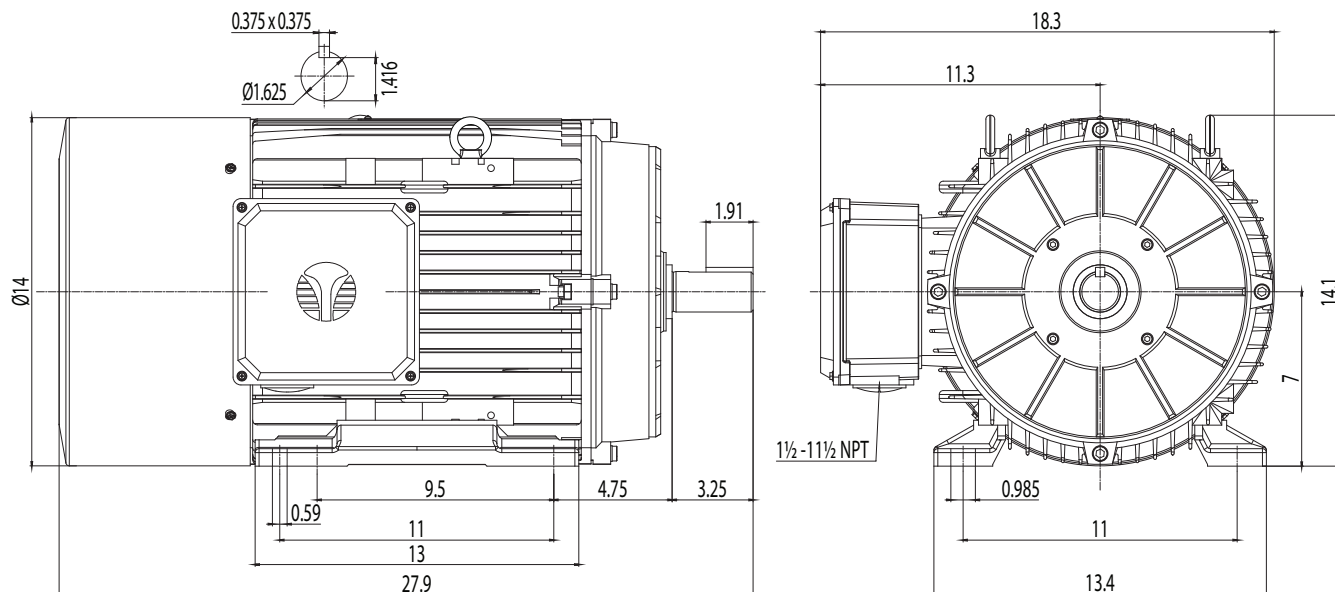
GENERAL DATA		
Frame Size	284TS	
Enclosure	TEFC	
Mounting	Rigid	
Approximate Weight (lbs.)	-	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	A	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	YES	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6311 ZZ	
Bearing ODE Side	6311 ZZ	
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	A, B, C & D	
Temperature Code	T3A	-

Questions? Call 1.888.286.1820

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	40	40
RPM	3550	2930
Voltage	230/460	190/380
Full Load Amps	89.6/44.8	109/54.5
Service Factor	1.25	1
KVA Code	J	G
Full Load Amps (208V)	98.9	-
Nominal Efficiency	92.4	91
Nominal Power Factor	0.92	0.92
Design	A	
Frame	284TS	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6311 ZZ	
Opposite Drive End Bearing	6311 ZZ	
Weight (lbs)	-	

NAMEPLATE LAYOUT

 TECHTOP		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	TEFC 55
SF			DUTY	
KVA CODE			INS CL	
NOM.EFF			AMB	
EFF 75%			DE	
PF			ODE	
USABLE AT 208V			WEIGHT	lbs
				 CC098A UL E323353  224693 
CLASS 1, DIV 2, GROUPS A, B, C AND D		MADE IN CHINA		Energy Efficient

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

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PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	-	-
Pull-Up Torque	-	-
Breakdown Torque	-	-
Full Load Torque	-	-

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	-
No-Load Current (A)	-
No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	-	-	-	-	-	-
Efficiency (%)	-	-	-	-	-	-
Speed (r/min)	-	-	-	-	-	-
Power Factor (cosΦ)	-	-	-	-	-	-
Input Power (kW)	-	-	-	-	-	-

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HIGH VOLTAGE
(Δ)



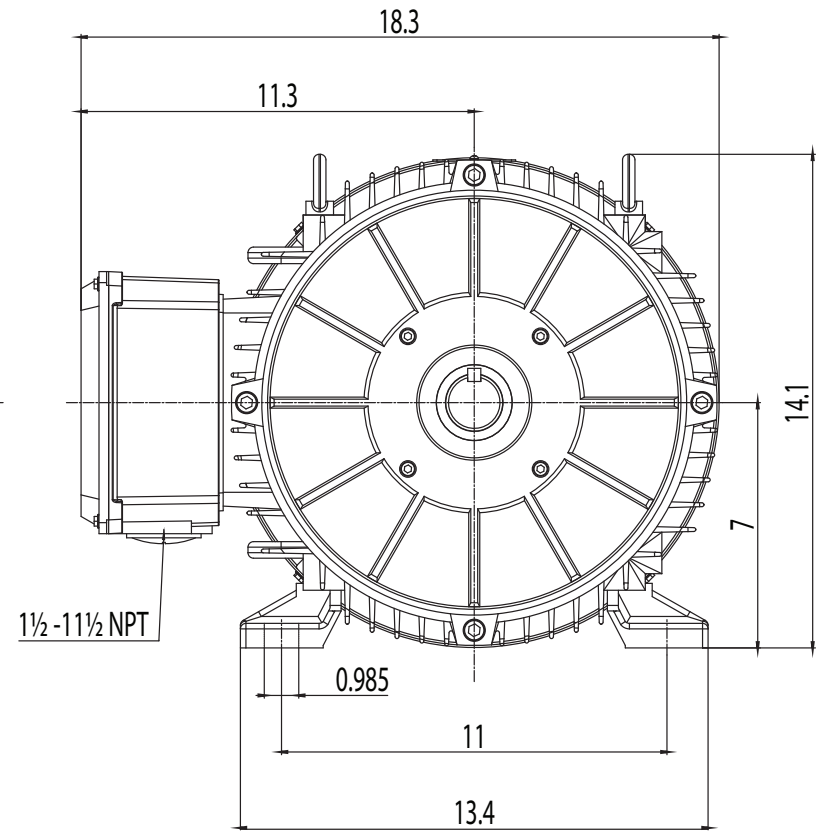
LOW VOLTAGE
(ΔΔ)

- 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	06/03/25
CONNECTION:	DD/D	PREMIUM T-FRAME ALUMINUM MOTORS	
NUMBER OF LEADS:	12		
THERMAL PROTECTION:	-		



NEMA Premium TEFC 284TS

DRAWING NUMBER:	GR3-AL-TF-280TS-01	ISSUED DATE	06/03/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid	PREMIUM T-FRAME ALUMINUM MOTORS	
CASING MATERIAL:	Cast Aluminum		