

Tektrim GLT 039T Severe Duty Motor.

Features that make a difference:

- ⚡ All NEMA Premium ratings have a 1.25 service factor (up to 100 HP) resulting in cooler operation and extended life of the motor
- ⚡ All Cast Iron Construction, including Terminal Box and Fan Cover (*)
- ⚡ Solid feet for reduced vibration levels and impact absorption
- ⚡ Optimized ventilation system for cooler operation and extended life
- ⚡ High Grade FC200 cast iron provides superior mechanical strength and heat dissipation
- ⚡ All WEG W22 motors are Totally Enclosed Fan Cooled with a true IP55 rating against dust and moisture. (IPW56, IPW65 and IPW66 available as optional)
- ⚡ Exclusive W-Seal 364T and larger provides superior bearing protection
- ⚡ Taconite Labyrinth seal 586 Frame and larger
- ⚡ Exclusive WEG painting system exceed 200hrs ASTM 117 corrosion test (Exceeds IEEE841 standard)
- ⚡ Balanced to 0.08 inches per second vibration limits (Meets IEEE841 standard)
- ⚡ Four Bolt Conduit Cover with glued Neoprene Gasket
- ⚡ Impregnation Resin and magnet wire are insulation class H
- ⚡ Stainless Steel Nameplate - Laser edged with high contrast background
- ⚡ Corrosion Proof Drains
- ⚡ Inverter Duty per NEMA MG1, Part 31
- ⚡ Certified Class I Div 2, Groups A, B, C & D; Class II, Div 2, Groups F & G

*cast iron fan cover available as an option on 143-215T frames

New Cooling System

Fan Cover

- ⚡ Aerodynamic design
- ⚡ Noise level reduction
- ⚡ Better air flow distribution over frame
- ⚡ Increased mechanical strength

Fan

- ⚡ Reinforced fan hub structure
- ⚡ Noise level reduction
- ⚡ Increased air flow
- ⚡ Fan with higher stiffness

Terminal Box

- ⚡ Better connection quality
- ⚡ Easier cable handling
- ⚡ More space available for accessory installation
- ⚡ Easier Maintenance
- ⚡ Mounting F1/F2/F3
- ⚡ Rotation on 90° stages

Bearing Caps

External

- ⚡ Finned surface for improved bearing heat dissipation

Internal

- ⚡ Change of grease path for positive lubrication
- ⚡ Bearing lubrication quality improvement
- ⚡ Reduced bearing temperature

Seal Subsystem

- ⚡ Increased dust and moisture protection
- ⚡ Increased protection to high-pressure cleaning

Frame

- ⚡ Reduced temperature on windings and bearings
- ⚡ Noise level reduction
- ⚡ Terminal box position outlet on top

Pad for vibration sensor

- ⚡ Displaced 90° from each other

Enhanced Lifting Provisions

- ⚡ Easier handling - horizontal & vertical
- ⚡ Higher mechanical strength and handling safety

Solid feet

- ⚡ More impact resistance
- ⚡ Ideal for high vibration level applications

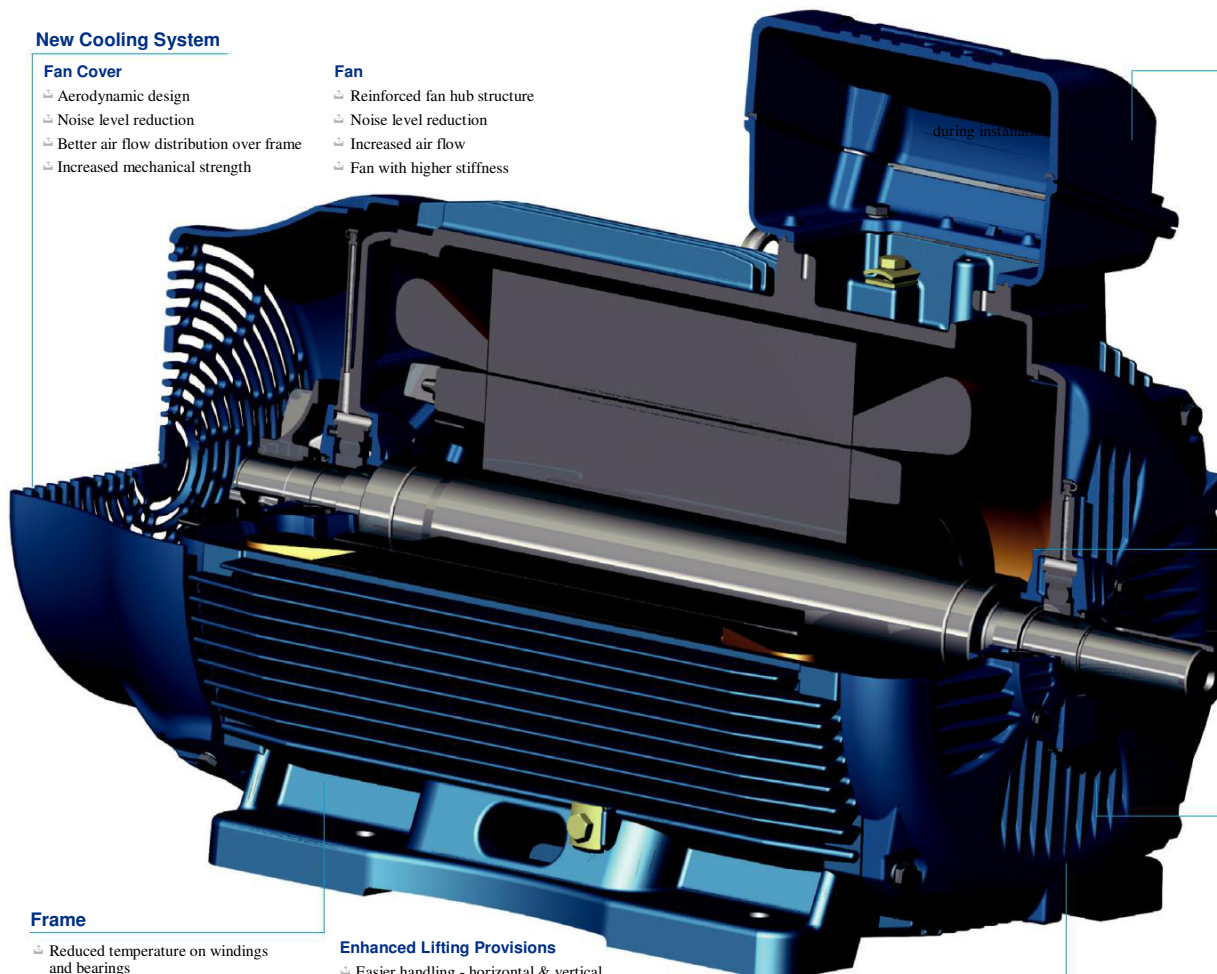
Endshields Subsystem

DE (Drive Endshield)

- ⚡ New fin design
- ⚡ Bearing moved outwards for better load support
- ⚡ Improved bearing heat dissipation for reduced bearing temperature
- ⚡ Reinforced endshield structure

NDE (Non-Drive Endshield)

- ⚡ New design with smooth exterior surface
- ⚡ Improved air flow
- ⚡ Noise level reduction
- ⚡ Improved structural rigidity for low vibration



Severe Duty is standard with Tektrim.

SEVERE DUTY/ GENERAL PURPOSE – NEMA PREMIUM EFFICIENCY



FEATURES – ELECTRICAL			
Features	Standard	Optional	Special
Poles	2 up to 8	–	–
Voltage	208–230/460V (up to 215T–9 terminals and from 254 up is 12 terminals)	575V and others	–
Insulation	F (DT=80K)	H	–
Service Factor	1.25 (up to 100HP)	–	–
	1.15 (from 125HP and up)	–	–
Impregnation	Dip and bake (up to 326T)	Continuous Resin Flow	–
	Continuous Resin Flow (364T+)	–	–
Features	Standard	Optional	Special
Thermal Protection		PTC, Thermostat, PT100 and KTY	–
NEMA Design	B	C	
MECHANICAL			
Features	Standard	Optional	Special
Frame	143 – 588/9	–	–
Mounting	F1	F2, F3, any	–
Flange	–	C and D	–
Drain Plug	Manual Rubber	Stainless	Threaded
Eyebolt	182 – 588/9	–	–
Enclosure	IP55	IPW56, IPW65, IPW66	–
Sealing	V-ring 143T–326T WSeal 364T–L449T Taconite Labyrinth 586/7–588/9	Lip Seal or Oil (143 – 444/5) InproSeal (143 – 588/9) Labyrinth Tachonite Seal (143 – 588/9) W3 Seal (143 – 588/9)	Viton Oil Seal (143 – 588/9)
Fan	Plastic (143 – 504/5) Aluminum (5008, 586/7 and 588/9)	Aluminum, Bronze and Cast Iron Bronze and Cast Iron	–
Fan Cover	Steel Cover (143 – 215) Cast Iron Cover (254 – 588/9)	–	Cast Iron Cover (143 – 215) –
Bearing	Ball Bearing (ZZ up to 215)	Roller Bearing (254 – 588/9) **	–
	Ball Bearing (143/5– 588/9)	–	–
Bearing Cap	254 – 588/9	143 – 215 (Std with flange)	–
Grease	Polyrex	Aeroshell, Krytox, WT/Ens	–
Regreasable Bearings	254 – 588/9	143 – 215	–
Shaft Material	SAE 1040/45 (143 – 364/5)	4140, AISI 304/316/420	–
	4140 (404/5 – 588/9)	AISI 304/316/420	–
Shaft End	T (TS – 2 Poles 284 – 588/9)	TS – 4 and up (284 – 588/9)	
Key Type	A (143 – 326), B (364/5 – 588/9)	B (143 – 326), C (143 – 588/9)	–
Balancing	Precision with Half Key (143 – 326)	Others	–
	Precision with Half Key (364/5 – 588/9)		–
Center Hole	Threaded (364/5 – 588/9)	Threaded (143 – 326)	–
Terminal Box	143 – 215 (Style W22)	–	–
	254 – 588/9 (Type diagonal)		–
Terminal Box Thread	NPT	RWG, Metric and PG	–
Terminal Box Plug	Plastic Smooth	Cable glands	Plastic Threaded
Leads outlet protection	Self-extinguishing Foam	Epoxy	–
Frame grounding	Single Grounding (143 – 326)	Double Grounding (143 – 326)	–
	Double Grounding (364/5 – 588/9)		–
Terminal Block	–	BMC (6 terminals) and 12 terminals	–
Features	Standard	Optional	Special
Painting plan / Color	207A / RAL 5009 (up to 215)	Others	–
	203A / RAL 5009 (254 and up)		–
Packing	Cardboard Box (143 and 215T) Crate (254T – 588/9)	–	Pallet –
** Only to 4 Poles and up (2 poles used ball Bearing and Shaft material SAE 1040/45)			
Others Optional Features:		Nameplate Details:	
Additional Terminal Box	Encoder	<div> <div>33862</div> <div> Class I – Division 2 Groups B C and D TEMP CODE T3C MOD.1UTE1FGNXN010040® </div> <div> </div> <div> LR 50962 LR 58324 EEV 78282 </div> </div>	
Space Heater	Double Shaft End		
Internal Tropicalized Painting			
Permatex Sealed Endshields			
Slinger – Shaft up			
Drip Cover (Canopy) – Shaft down			