

Benchmarking Motors for a New Era

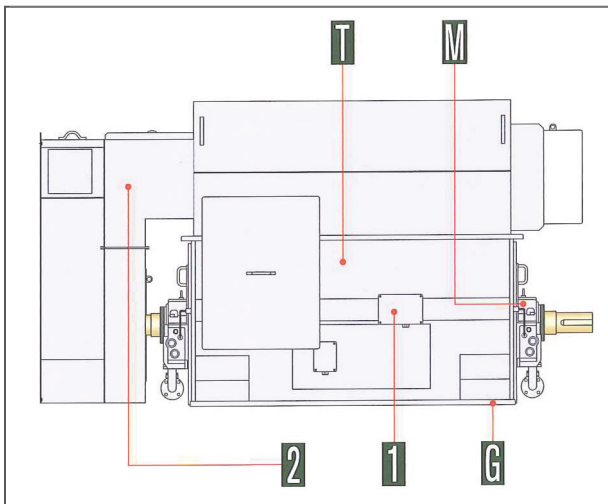
Introducing TMEiC's new TM21-G Series

TMEiC
We drive industry



- Amazingly small footprint
- Reduced weight
- Complies with International Standards
- Minimal maintenance required
- Exceptional reliability

Specially designed for a small footprint and easy operation, TM21-G Series motors require less time for installation, maintenance and replacement while ensuring the high performance synonymous with the TMEiC name. All motors offer a range of benefits that meet the diversified needs of our customers.



Specifications

Rated voltage	Up to 11 kV		
Rated speed	Up to 3,600 rpm (applicable for WVF drive)		
Number of poles	2P - 14P		
Cooling method	WP2	IC01	
	TEAAC	IC611	
	TEWAC	IC81W	
Enclosure	WP2	IP24W	
	TEAAC	IP54, IP55, IP56	
	TEWAC	IP54, IP55, IP56	
Mounting method	IMB3 (Horizontal), MV1 (Vertical)		
Shaft height	Up to 630 mm		
Thermal class	155° F		
Temperature rise limit	Class B rise		
Ambient temperature	Min -20° C, Max 40°, 45°, 50° C		
Bearings	Antifriction / Sleeve (self-lube / forced tube)		
Lubricants	Antifriction	SKF LGHP2 or equivalent	
		Self-lube sleeve	2P, 4P
	6P		Mobil SHC 825
	Shower	Mobil SHC 626	
Standards	IEC, BS, IS, AS, NEMA, JEC, etc.		

- Six winding RTDs and space heater for motor frame included as standard equipment when required.

Total weight reduced

T

Major Materials, Shipping & Manufacturing Costs Reduced

Lighter motor offers:

- Reduced shipping & foundation costs
- Reduced installation work

Maintenance Simplified

M

Exceptionally Low Maintenance Cost

- Sleeve bearing can be replaced without motor disassembly

Antifriction bearings used throughout

- Easy access to backup bearings requiring periodic replacement
- Low-cost maintenance

2-piece fan cover

2

Maintenance So Easy Anyone Can Do It

Two-piece fan cover

- Removal of heat exchanger without disassembly
- Easy maintenance

1 common junction box as standard equipment

1

Installation and Replacement Work Reduced

Instrument cables connected in one junction box

- Separate cable connections gathered in one spot
- Substantial reduction in installation & replacement work

Greatly reduced installation time

G

Shorter shutdown maintenance time

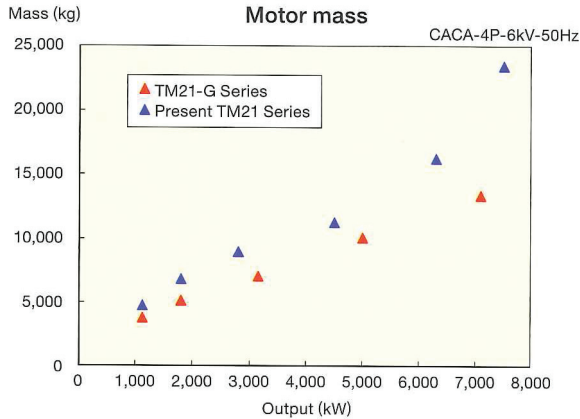
A shorter total motor length

- Can be installed in narrow spaces
- Reduced time required for installation & alignment
- Reduced time required for shutdown maintenance during overhauls

Nothing Quite Like It - Experience a TM21-G

Lightweight motors

World-class Lightweight Design

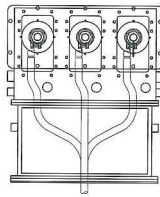
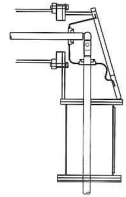


The new design of these world-class motors has resulted in a 20-30% weight reduction compared to our previous motor series. This contributes to various benefits including reduced shipping cost, lower foundation load/crane capacity and simplified maintenance.

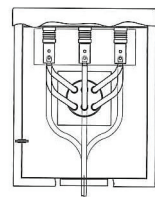
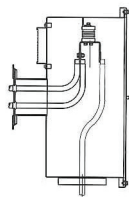
Main circuit terminal box

Choice of Terminal Boxes

Phase-segregated terminal box



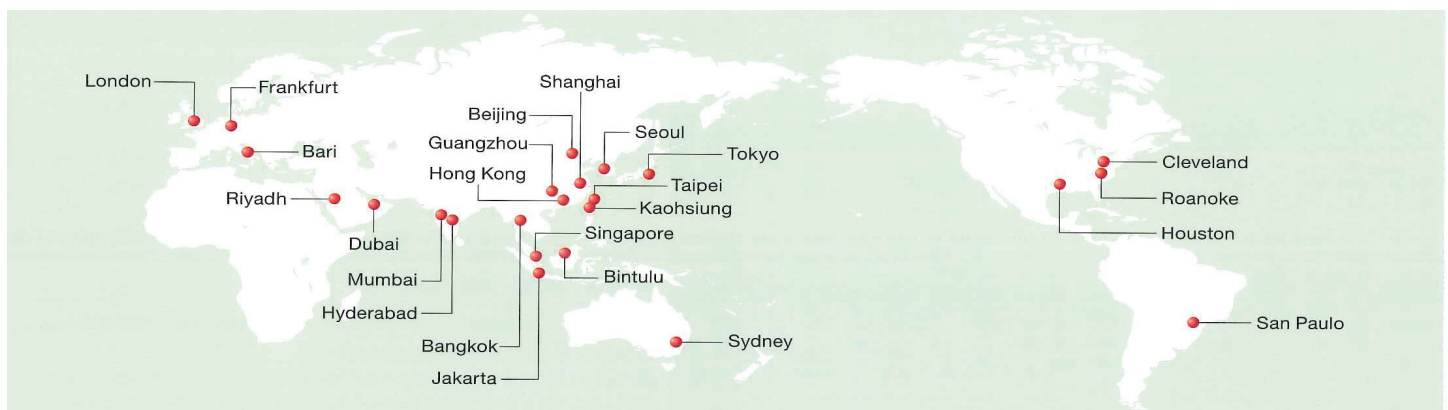
Standard terminal box



A variety of terminal boxes are available as standard equipment in response to market demand. Choices include a standard terminal box, a phase-segregated terminal box and a terminal box with large double terminals compliant with NEMA standards.

Global Sales / Service Network

With offices located around the world, regional TMEIC companies and TMEIC motor service shops provide reliable customer support wherever needed.



Empowering the Future

Junction box

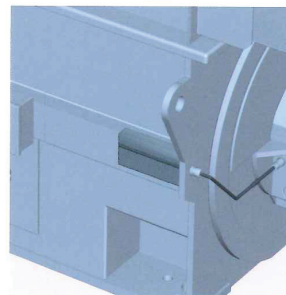
Cable Connection Work Simplified



Instrument cables are routed into a single junction box and the incorporation of clamp-type terminals as standard simplifies the cable connection process. As a result, external cable connection work is simplified, reducing installation times. Furthermore, the stainless steel junction box increases operating durability under harsh conditions.

Cable duct

Replacement So Easy a Novice Can Do It



Instrument cable and space heater cables pass through an IP55 cable duct that is hermetically sealed using steel plates. This helps to ensure motor operation even in harsh environments. Additionally, the iron piping and armored cables required when running cables alongside the motor surface have been eliminated. As a result, less time and effort are required when replacing instruments, and it's so easy virtually anyone can do it.