



# Announcing Our Partnership

## **TMEIC Medium Voltage Motors & Drives**

### **Now Available at KJ Electric**

# **TMEiC**

***We drive industry***

*TMEIC is the leading application expert for high performance drive systems and services, combining strong global capabilities with a flexible customer-centric business approach. As an industrial systems integrator, TMEIC focuses on industrial markets, brings innovation to industry, takes positive and constructive approaches, and evolves continuously with customers.*

*Built on the proud history of Toshiba and Mitsubishi Electric, TMEIC is still continuing its long tradition of providing high performance, high horsepower drive and motor solutions to customers around the world in partnership with KJ Electric.*

#### **TMdrive®-MVe2 (Medium Voltage Drive):**

- **Active line side converter**
- **Conservative design using 1200 V IGBTs and dry film type capacitors**
- **Input isolation transformer included in drive package**
- **Power conversion module in a single drawer-type package**
  - Acts as a shock absorber from power strikes and offers better motor protection
- **Synchronous transfer to line option with no interruption to motor current**
  - Allows for control of multiple motors with one drive
- **High energy efficiency of approximately 97%**
  - Reduces HVAC cooling requirements



#### **Dura-Bilt 5iMV:**

- **Medium Voltage IGBTs (Insulated Gate Bipolar Transistors)**
  - These high power IGBTs provide rock solid reliability and allow a simpler, more reliable inverter design with fewer power switches.
- **24-Pulse Converter**
  - Each phase leg of the converter includes a 24-pulse diode rectifier. This design exceeds the IEE 519-1992 specification for Total Harmonic Distortion (THD) without requiring filters.
- **Heat Pipe Cooling Technology**
  - This is used in each of the three inverter phase legs (most ratings). This form of cooling reduces the ambient noise and saves valuable floor space in your plant.
- **Windows®- Based Configuration & Maintenance Tools**



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## TM21-G:

- Output Up to 23,000 kW (30,800 HP)
- Mounting: Horizontal or Vertical
- Voltages: 2,300V through 11,000V
- Copper Bar Rotor
- Enclosures: WP11 (IP24), TEAAC (IP55), TEWAC (IP55)
- Bearing Type: Anti-friction or Sleeve (Self or Forced Lube)
- Applications:  
Pumps, Fans, Compressors, Conveyors, Mixers, Material Handling

## 21-L Series:

- Designs up to 18,500 KW (25,000 HP)
- From 2 pole up to 24 pole designs
- 2,300-13,800 Volts, 50 or 60 Hz
- Compact design through  
Extensive electrical magnetic field analysis, Heat transfer analysis & Improved ventilation
- Lower Noise & Less Vibration  
Advanced techniques in core/frame construction
- Advanced VPI Insulation System  
Compatible with VFD voltage supplies & effects of surge voltages



## 21-MII Series

- Designs up to 3,500 kW (4,750 HP)
- Excellent Electrical Performance  
Higher efficiency, Higher Power Factor, Superior starting characteristics
- Frame Sizes from  
315 mm to 450 mm (shaft height)
- Rugged Cast Iron Construction
- 2,300 to 11,000 Volts, 50 or 60 Hz



**CALL YOUR LOCAL KJ ELECTRIC REPRESENTATIVE TODAY!**

### **CORPORATE HQ. SYRACUSE**

**(315) 454-5535**

5894 EAST MOLLOY RD  
SYRACUSE, NY 13211  
FAX: 315-454-5564  
[admin@kjelectric.com](mailto:admin@kjelectric.com)

### **BUFFALO**

**(716) 693-2500**

170 FIRE TOWER RD  
TONAWANDA, NY 14150  
FAX: 716-693-2544  
[buffalo@kjelectric.com](mailto:buffalo@kjelectric.com)

### **ROCHESTER**

**(585) 426-3900**

54 PIXLEY IND. PKWY EXT  
ROCHESTER, NY 14624  
FAX: 585-426-0739  
[rochester@kjelectric.com](mailto:rochester@kjelectric.com)

### **ALBANY**

**(518) 783-7152**

146 RAILROAD AVE  
ALBANY, NY 12205  
FAX 518-783-7378  
[albany@kjelectric.com](mailto:albany@kjelectric.com)

### **BINGHAMTON**

**(607) 772-1760**

119 CORPORATE DRIVE  
BINGHAMTON, NY 13904  
FAX: 607-772-1127  
[binghamton@kjelectric.com](mailto:binghamton@kjelectric.com)