TOSHcare®

Migration Solutions for Medium Voltage Drives

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T300MVi® to T300MV2® Control Platform Conversion

MIGRATING TO THE T300MV2

Toshiba's T300MVi medium voltage adjustable speed drive can be converted in the field to a T300MV2, Toshiba's current-generation medium voltage adjustable speed drive. Migrating your T300MVi drives offers several advantages, including:

• A reduction in spare parts inventory as a result of using only one operating platform. Customers can also receive a credit for returning existing T300MVi spare parts kits when purchasing T300MV2 spare parts kits during the conversion process.*

• Eligibility of converted drives for correction of applicable defects with the purchase of a TOSHcare® Protection Plan.*

• Improved communications speed and processor power of the T300MV2 platform as compared to the T300MVi platform. Converting your T300MVi drives to T300MV2 drives also eliminates the need for PLCs in systems with redundant fan controls and single motor Sync-Xfer.

T300MVi Conversion Kit

The T300MVi conversion kit contains all circuit boards, relays and mounting hardware required for the upgrade. Field conversion will be performed by factory-authorized qualified personnel and includes testing to help ensure a smooth transition between control platforms and continued operation of your equipment.

Contact Toshiba International Corporation to determine whether your T300MVi drive qualifies for conversion. Please contact us at 855-803-7092 or send us an email at TIC-TOSHcare@toshiba.com for more information or to request a quote.

T300MVi to T300MV2 Control Platform Conversions are considered part of TOSHcare® Lifecycle Services, which are subject to applicable terms, conditions and limitations.

T300MVi to T300MV2 Comparison

As the current generation of Toshiba's medium voltage adjustable speed drive, the T300MV2 generation retains the same robust power platform and small footprint of the T300MVi while utilizing an updated control platform. Specifically, the T300MV2 is supported by a new control system, which contains an enhanced industrial processor for vastly improved control as well as an increased number of inputs and outputs for a user-friendly interface.

		T300MVi	T300MV2	Benefit
Control Board		67MHz Control Board	200MHz Control Board	Faster Processor on the Control Board; High Speed EtherNet® Communication for T300MV2
		10BASE-T EtherNet®	100BASE-TX Ethernet	
		2.5MB Flash Memory	8MB Flash Memory	
Digital Inputs		UVS + 7 Channels	UVS X 2 + 10 Channels	Expanded I/O on T300MV2
Digital Outputs		6 Channels	10 Channels	
Analog Inputs		2 Channels	3 Channels	
Analog Outputs		3 Channels	4 Channels	
Communication		-	EtherNet® Global Data for the GE-Fanuc (EGD)	Additional Communication Protocols for T300MV2
		-	IEC® Real Time Ethernet (TCNET)	
General Features		BLR Consumes a Programmable Digital Output	BLR Controlled by Onboard Logic; Does Not Consume a Programmable Digital Output	New Features for T300MV2
		No PID Control	PID Control Available for Simple External PID Loop	
		4 Stage Ramp Rates	6 Stage Ramp Rates	
		PLC Required for Sync-Xfer	Single Motor Sync-Xfer Can Be Performed Without PLC	
		PLC Required for Redundant Fan Controls	Redundant Fan Controls Can Be Performed Without PLC	
		2 Sets of Control Boards for Regen	1 Control Board for All Applications	Fewer Components Needed for T300MV2
		TEX Board Required for 6.6kV, G4P, H4P	No TEX Board Required	

Standard T300MVi & T300MV2 Features

- Three Cables In, Three Cables Out
- No Auxiliary Power Needed
- Integral Disconnect Switch
- 24-Pulse Cu. Isolation Transformer
- Air Cooled

- Draw Out Power Modules
- Retrofit Ready
- Motor Friendly Output Waveform
- Meets IEEE® 519 - Harmonics
- Same Footprint

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Motors • Adjustable Speed Drives • Controls • Industrial Automation

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