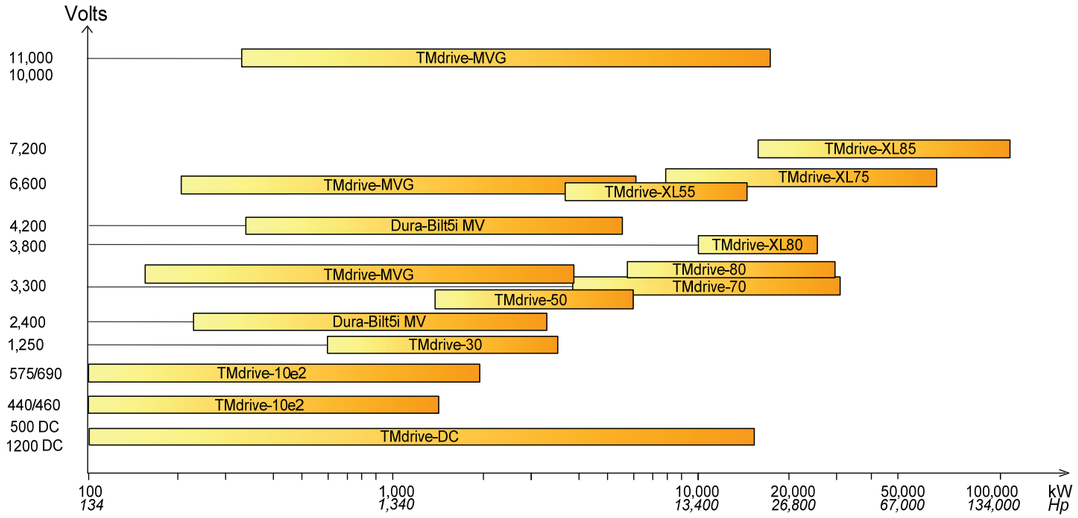
TMEIC Drives Offer Complete Coverage



TMEIC Corporation
Office: 1325 Electric Road, Suite 200
Roanoke, VA, United States 24018
Mailing: 2060 Cook Drive
Salem, VA, United States 24153
Tel.: +1-540-283-2000; Fax: +1-540-283-2001
Email: info@tmeic.com
Web: www.tmeic.com

TMEIC Houston
2901 Wilcrest Dr., Suite 210
Houston, TX 77042
Tel.: +1-713-784-2163; Fax.: +1-713-784-2842
Email: OilGas@tmeic.com
Web: www.tmeic.com

Toshiba Mitsubishi-Electric Industrial Systems Corporation
Mita 43 MT Bldg.
13-16 Mita 3 chome, Minato-ku Tokyo
108-0073 Japan
Tel.: +81-3-5444-3828; Fax: +81-3-5444-3820
Web: www.tmeic.co.jp

TMEIC Europe Limited
6-9 The Square, Stockley Park
Uxbridge, Middlesex,
United Kingdom, UB7 7LT
Tel.: +44 870 950 7220; Fax: +44 870 950 7221
Email: info@tmeic.eu
Web: www.tmeic.com

TMEIC – Sistemas Industriais da América do Sul Ltda.
Av.Paulista, 1439 cj72
Bela Vista, CEP:01311-200
São Paulo/SP, Brasil
Tel: +55-11-3266-6161; Fax: +55-11-3253-0697

TMEIC Industrial Systems India Private Limited
Unit # 03-04, Third Floor,
Block 2, Cyber Pearl, HITEC City, Madhapur,
Hyderabad, 500081, Andhra Pradesh, India
Tel.: +91-40-44434-0000
Fax: +91-40-4434-0034
Email: inquiry_india@tmeic.com
Web: www.tmeic.in

TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS (Beijing) CORPORATION
21/F., Building B, In.do Mansion
48 Zhichunlu A, Haidian District,
Beijing 100098, PRC
Tel.: +86 10 5873-2277
Fax: +86 10 5873-2208
Email: sales@tmeic-cn.com

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TMEIC
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Low and Medium Voltage Drive Specifications

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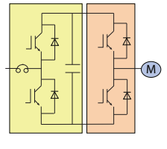
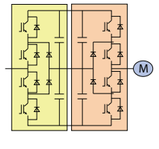
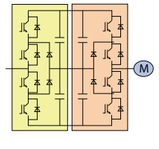
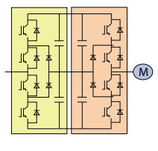
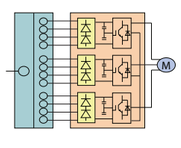
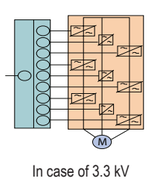
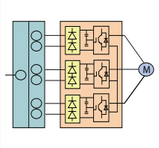
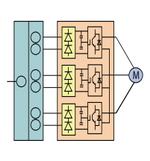
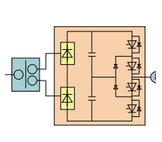
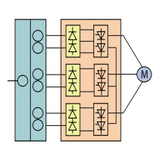
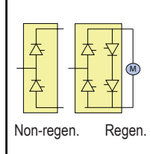
TMEIC Drive Specifications

Product	LV AC Drive	MV AC Drive									DC Drive
	TMdrive-10e2 TMdrive-P/D10e2	TMdrive-30 TMdrive-P/D/T30	TMdrive-50 TMdrive-P/D50	TMdrive-70e2 TMdrive-P70e2	Dura-Bilt5i for North America	TMdrive-MVG TMdrive-MVG2	TMdrive-XL55	TMdrive-XL75	TMdrive-XL80	TMdrive-XL85	TMdrive-DC (LEOPACK/ MELNARD)
Typical View											
Line-side converter	Common converter with IGBT(P), diode(D)	Common converter with IGBT (P), diode (D) or thyristor (T)	Common converter with IGBT (P), diode (D)	Common converter with IEGT (P)	24 pulse diode converter	Diode converter 18 pulse (3.3 kV) 18 or 36 pulse (6.6 kV) 54 pulse (10 kV) 30 pulse (11 kV)	36 pulse diode converter	36 pulse diode converter	12 or 24 pulse diode converter	36 pulse diode converter	Thyristor
Inverter	2 level PWM*1	3 level PWM-NPC*3	3 level PWM-NPC	3 level PWM-NPC	3 level PWM-NPC (2.3 kV) 5 level PWM (4.16 kV)	Multilevel PWM	5 level PWM	5 level PWM	3 level PWM-NPC	5 level PWM	—
Device in inverter	IGBTs	IGBTs	IGBTs	IEGTs	IGBTs	IGBTs	IGBTs	IEGTs	GCTs	GCTs	—
Cooling system	Heatpipe air cooled	Heatpipe air cooled	Water cooled	Water cooled	Forced air cooled	Forced air cooled	Water cooled	Water cooled	Water cooled	Water cooled	Forced air cooled
Output voltage	460/575/690 V	1.25 kV	3.3 kV	3.3 kV	2.3/4.6 kV	3.3/6.6/10/11 kV	6.6 kV	6 kV	3.8 kV	7.2 kV	440/750/900/1200 V
Maximum capacity	2040kVA/460 V 2749kVA/690 V	4,000 kVA	6,000kVA (2x3000 kVA)	24 MVA (4x6 MVA) 36 MVA (4x9 MVA)	2500 kVA/2.3 kV 5000 kVA/4.16 kV	3000 kVA/3.3 kV 6000 kVA/6.6 kV 10000 kVA/11 kV	16 MVA (2x8 MVA)	80 MVA (4x20 MVA)	30 MVA (2x15 MVA)	120 MVA (4x30 MVA)	850 kW/440 V 9100 kW/1200 V
Overload	150% - 60 sec.	150% - 60 sec.	150% - 60 sec.	150% - 60 sec.	115% - 60 sec.	125% - 60 sec.	100% - Conti.	110% - 60 sec.	110% - 60 sec.	110% - 60 sec.	150% - 60 sec.
Max output freq.	200 Hz	120 Hz	60/90 Hz	60/90 Hz	60/120 Hz	60/120 Hz (3.3/6.6 kV) 60/72 Hz (10/11 kV)	60/250 Hz	60/200 Hz	60/100 Hz	60/200 Hz	DC
Speed control	Resolver, Encoder, V/F*2 control, Sensorless	Encoder, Resolver, V/F control, Sensorless	Resolver, Encoder	Resolver, Encoder	Sensorless vector, V/F control	Sensorless vector, V/F control	V/F control, Sensorless vector	V/F control, Sensorless vector	V/F control, Sensorless vector	V/F control, Sensorless vector	Resolver, Encoder
Motor Type	Induction Motor	Induction motor Synchronous motor	Induction motor Synchronous motor	Induction motor Synchronous motor	Induction motor Synchronous motor	Induction motor Synchronous motor	Induction motor Synchronous motor	Induction motor Synchronous motor	Induction motor Synchronous motor	Synchronous motor	DC motor
Major applications	Process Industries, Material Handling, Dynamometer	Metal Processing, Marine, Mining	Metal Processing, Marine, Mining	Metal Rolling Mills, Compressors, Utilities	Pumps, Fans, Blowers, Extruders, Mixers	Pumps, Fans, Blowers, Extruders, Mixers	Compressors, Pumps, Fans, Blowers, Extruderss Mixers	Compressors, Pumps, Fans, Blowers	Compressors, Pumps, Fans, Blowers, Extruders, Mixers	Compressors	Various applications
Features	Max. 8 stages (trays)	Compact with heatpipe technology, Regen with IGBT/Thyristor	High efficiency, Clean AC power, Compact	High efficiency, Clean AC power, Compact	Clean AC power, No sensor required for most applications	Clean AC power, No sensor required for most applications	Clean AC power, No sensor required for most applications	Clean AC power, No sensor required for most applications	Clean AC power, No sensor required for most applications	Higher efficiency and PF compared to LCI or Cycloconverter	Upgrade is possible by replacement
Circuit Diagram	TMdrive-P10, -10  In case of IGBT converter	TMdrive-P30, -30  In case of IGBT converter	TMdrive-P50, -50  In case of IGBT converter	TMdrive-P70, -70 	Trans-former Cells  In case of 4.16 V	Trans-former Cells  In case of 3.3 kV	Trans-former TM-XL55 	Trans-former TM-XL75 	Trans-former TM-XL80 	Trans-former Cells 	 Non-regen. Regen.

* TMdrive-P10: IGBT converter
TMdrive-D10: Diode converter
TMdrive-D10: Thyristor converter

*1 PWM: Pulse Width Modulation
*2 V/F: Voltage/Frequency
*3 NPC: Neutral Point Cramped

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