

AEROTECH AUTOMATION

TM Series Transformer Modules **TM3 & TM5**

TM3 Transformer Module (300 watts)

The TM3 transformer module provides and distributes isolated AC and/or DC bus supply voltages for up to four Aerotech controllers, with a maximum output power capability of 300 watts.

TM5 Transformer Module (500 watts)

The TM5 transformer module provides and distributes isolated AC bus supply voltages for up to four Aerotech controllers, with a total output power capability of 500 watts.



KEY FEATURES:

- ◆ Features a **SOFT-START CIRCUIT** to limit inrush current (TM3)
- ◆ Includes **VOLTAGE SELECTOR** (TM3)
- ◆ Provides **AUXILIARY SUPPLY OUTPUTS** for powering up to four additional products
- ◆ Includes a **24 VDC POWER SUPPLY**

TM3/TM5 SERIES SPECIFICATIONS

MODEL	TM3	TM5
Type	Isolation	
AC Input Configurations	100 VAC, 115 VAC, 200 VAC, 230 VAC	
Peak AC Input Inrush Current	32 A _{pk}	200 A _{pk}
Operating Frequency	50/60 Hz	
Maximum Continuous Transformer Output Power	300 watts max @ 20°C	500 watts max @ 20°C
Peak Transformer Output Power	400 watts max @ 20°C	800 watts max @ 20°C
Short Circuit/Over Current Protection	AC input 10 A breaker/switch (supplementary protection only); 100 VAC/115 VAC configurations contain 4 A slow-blow fuse connected to transformer primary winding; 200 VAC/230 VAC configurations contain 3 A slow-blow fuse connected to transformer primary winding	AC input 10 A breaker/switch (supplementary protection only); 100 VAC/115 VAC configurations contain 8 A slow-blow fuse connected to transformer primary winding; 200 VAC/230 VAC configurations contain 4 A slow-blow fuse connected to transformer primary winding
Thermal Protection	Integral transformer thermal switch is normally closed. Thermal switch opens when internal temperature of transformer reaches 110°C	Integral transformer thermal switch is normally closed. Thermal switch opens when internal temperature of transformer reaches 110°C.
Secondary Winding Configuration	28 VAC (40 VDC bus); 56 VAC (80 VDC bus) ±10 VDC, ±20 VDC, ±30 VDC, ±40 VDC	28 VAC (40 VDC bus); 56 VAC (80 VDC bus); 112 VAC (160 VDC bus)
+24 VDC Output	4 A max	4 A max



TM3/TM5 SERIES ORDERING OPTIONS

TM3/TM5 Transformers

TM3	0.3 kVA Isolation Transformer
TM5	0.5 kVA Isolation Transformer

Input Line Voltage (Required)

-A	115 VAC Input Line Voltage
-B	230 VAC Input Line Voltage
-C	100 VAC Input Line Voltage
-D	200 VAC Input Line Voltage

Output Bus Voltage (Required)

-28VAC-28VAC⁽¹⁾⁽²⁾	VBus1 / VBus2: 28 VAC for 40 VDC Bus
-56VAC-56VAC⁽¹⁾⁽²⁾	VBus1 / VBus2: 56 VAC for 80 VDC Bus
-40VDC-40VDC⁽¹⁾	VBus1 / VBus2: 40 VDC
-80VDC-80VDC⁽¹⁾	VBus1 / VBus2: 80 VDC
-40B-40B⁽¹⁾	VBus1 / VBus2: +/- 40 VDC
-30B-30B⁽¹⁾	VBus1 / VBus2: +/- 30 VDC
-20B-20B⁽¹⁾	VBus1 / VBus2: +/- 20 VDC
-10B-10B⁽¹⁾	VBus1 / VBus2: +/- 10 VDC
-40BAUXAC-40BAUXAC⁽¹⁾	VBus1 / VBus2: +/- 40 VDC w/ Aux AC
-28VAC-56VAC⁽²⁾	VBus1: 28 VAC, VBus2: 56 VAC, for 40/80 VDC Bus
-56VAC-28VAC⁽²⁾	VBus1: 56 VAC, VBus2: 28 VAC, for 80/40 VDC Bus
-56VACCT-28VAC⁽²⁾	VBus1: 56 VAC Center Tap, VBus2: 28 VAC, for 80/40 VDC Bus
-56VACCT-56VAC⁽²⁾	VBus1: 56 VAC Center Tap, VBus2: 56 VAC, for 80 VDC Bus
-28VAC-56VACCT⁽²⁾	VBus1: 28 VAC, VBus2: 56 VAC Center Tap, for 40/80 VDC Bus
-56VAC-56VACCT⁽²⁾	VBus1: 56 VAC, VBus2: 56 VAC Center Tap, for 80 VDC Bus
-56VACCT-56VACCT⁽¹⁾⁽²⁾	VBus1 / VBus2: 56 VAC Center Tap, for 80 VDC Bus
-115VAC-115VAC⁽²⁾	VBus1 / VBus2: 115 VAC, for 160 VDC Bus

Notes:

1. Available with TM3 Transformers
2. Available with TM5 Transformers

Bus Split

/1-3⁽²⁾	VBus1 on Output 1, VBus 2 on Output 2, 3, and 4
/2-2⁽¹⁾⁽²⁾	VBus1 on Output 1 and 2, VBus 2 on Output 3 and 4
/3-1⁽²⁾	VBus1 on Output 1, 2, and 3, VBus2 on Output 4
/NOSPLIT⁽¹⁾⁽²⁾	VBus1 and VBus2 Tied Together and Wired to All Axes

Notes:

1. Available with TM3 Transformers
2. Available with TM5 Transformers

TM3/TM5 SERIES ORDERING OPTIONS

Power Supply

/PS24-1 24 VDC, 4 A Power Supply for Brake Control

Brake Cable

/C24-06 0.6 m (2 ft) Two Conductor Brake Cable with Flying Leads

/C24-09 0.9 m (3 ft) Two Conductor Brake Cable with Flying Leads

/C24-12 1.2 m (4 ft) Two Conductor Brake Cable with Flying Leads

/C24-15 1.5 m (5 ft) Two Conductor Brake Cable with Flying Leads

/C24-18 1.8 m (6 ft) Two Conductor Brake Cable with Flying Leads

Output 1 Cable*

* Output 2, Output 3, and Output 4 cables have the same available options. The options codes are identical except that they begin with C2 for Output 2, C3 for Output 3, and C4 for Output 4.

/C1AB-06⁽¹⁾⁽²⁾ Cable, 0.6 m (2 ft) - Control and Bus for HPe/CP Drive

/C1AB-09⁽¹⁾⁽²⁾ Cable, 0.9 m (3 ft) - Control and Bus for HPe/CP Drive

/C1AB-12⁽¹⁾⁽²⁾ Cable, 1.2 m (4 ft) - Control and Bus for HPe/CP Drive

/C1AB-15⁽¹⁾⁽²⁾ Cable, 1.5 m (5 ft) - Control and Bus for HPe/CP Drive

/C1AB-18⁽¹⁾⁽²⁾ Cable, 1.8 m (6 ft) - Control and Bus for HPe/CP Drive

/C1AL-06⁽¹⁾ Cable, 0.6 m (2 ft) - Control and Bus for GCL

/C1AL-09⁽¹⁾ Cable, 0.9 m (3 ft) - Control and Bus for GCL

/C1AL-12⁽¹⁾ Cable, 1.2 m (4 ft) - Control and Bus for GCL

/C1AL-15⁽¹⁾ Cable, 1.5 m (5 ft) - Control and Bus for GCL

/C1AL-18⁽¹⁾ Cable, 1.8 m (6 ft) - Control and Bus for GCL

/C1AM-06⁽¹⁾ Cable, 0.6 m (2 ft) - Control and Bus for MP Drive

/C1AM-09⁽¹⁾ Cable, 0.9 m (3 ft) - Control and Bus for MP Drive

/C1AM-12⁽¹⁾ Cable, 1.2 m (4 ft) - Control and Bus for MP Drive

/C1AM-15⁽¹⁾ Cable, 1.5 m (5 ft) - Control and Bus for MP Drive

/C1AM-18⁽¹⁾ Cable, 1.8 m (6 ft) - Control and Bus for MP Drive

/C1ML-06⁽¹⁾ Cable, 0.6 m (2 ft) - Control and Bus for ML Drive

/C1ML-09⁽¹⁾ Cable, 0.9 m (3 ft) - Control and Bus for ML Drive

/C1ML-12⁽¹⁾ Cable, 1.2 m (4 ft) - Control and Bus for ML Drive

/C1ML-15⁽¹⁾ Cable, 1.5 m (5 ft) - Control and Bus for ML Drive

/C1ML-18⁽¹⁾ Cable, 1.8 m (6 ft) - Control and Bus for ML Drive

Notes:

1. Available with TM3 Transformers

2. Available with TM5 Transformers

LINECORD

/US115VAC US 115 VAC Compatible Line Cord

/US230VAC US 230 VAC Compatible Line Cord

/ENGLAND U.K. Compatible Line Cord

/GERMANY German Compatible Line Cord

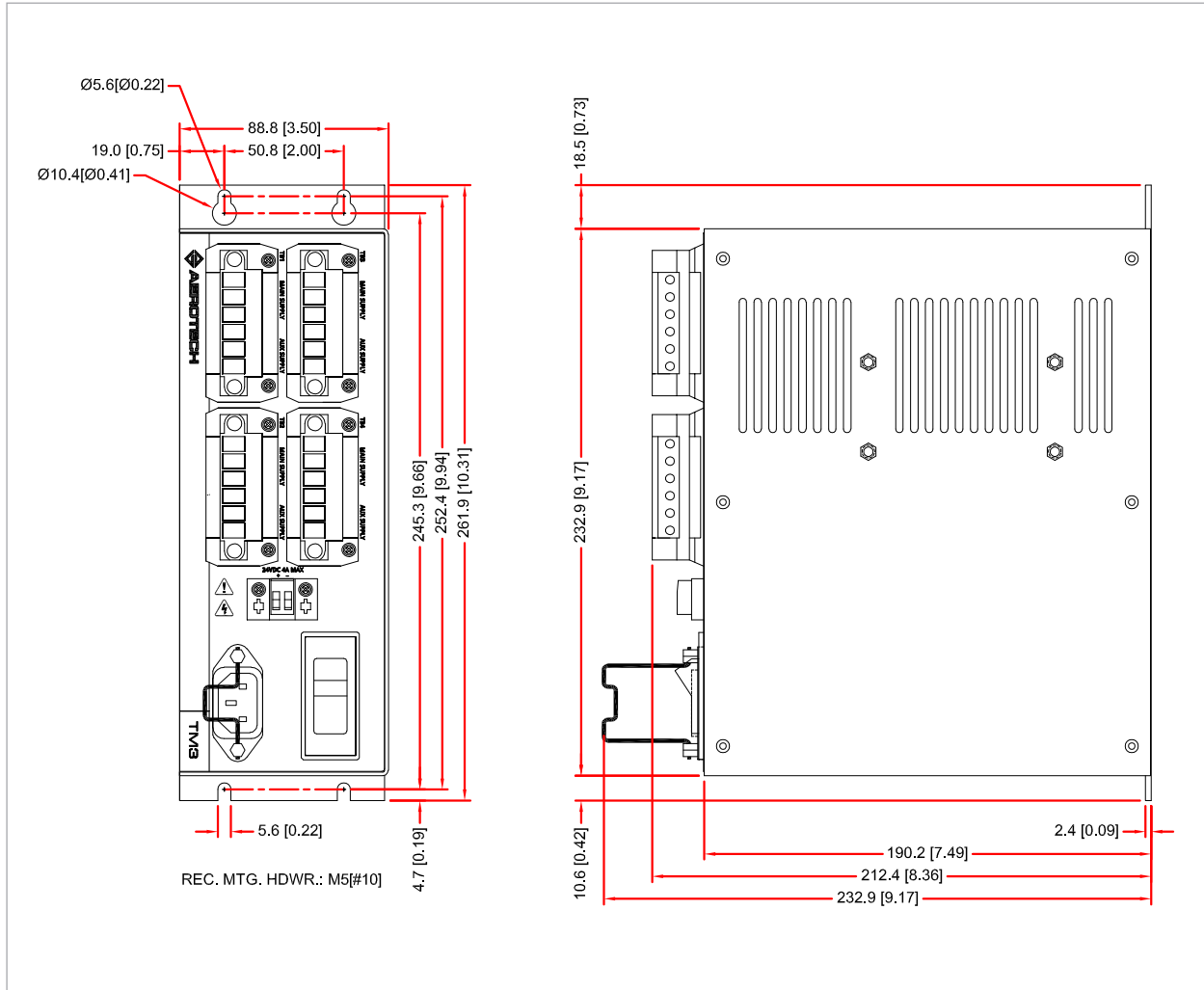
/ISRAEL Israel Compatible Line Cord

/INDIA India Compatible Line Cord

/AUSTRALIA Australia Compatible Line Cord

TM3/TM5 SERIES DIMENSIONS

TM3



TM3/TM5 SERIES DIMENSIONS

TM5

