TROVE™

Access & Power Integration

CE

Altronix/AMAG M2150 Kits

Models Include:

T2AMK7F8
8 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2AMK7F8S
8 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T3AMK75F16
16 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove3 enclosure with TAM3 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- Two (2) ACMS8 - Dual Input Fused Access Power Controllers
- Two (2) PDS8 - Dual Input Fused Power Distribution Modules

T3AMK77F16S
16 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove3 enclosure with TAM3 Altronix/AMAG backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- Two (2) ACMS8 - Dual Input Fused Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8 - Dual Input Fused Power Distribution Modules

T2AMK7F8D
8 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T2AMK7F8SD
8 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Input PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T3AMK75F16D
16 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove3 enclosure with TAM3 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- Two (2) ACMS8CB - Dual Input PTC Access Power Controllers
- Two (2) PDS8CB - Dual Input PTC Power Distribution Modules

T3AMK77F16SD
16 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove3 enclosure with TAM3 Altronix/AMAG backplane
- Two (2) eFlow104NB - Power Supply/Chargers
- Two (2) ACMS8CB - Dual Input PTC Access Power Controllers
- Two (2) VR6 - Voltage Regulators
- Two (2) PDS8CB - Dual Input PTC Power Distribution Modules

All components of these Trove kits are UL Listed sub-assemblies.
Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

Altronix®

More than just power.™

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Rev. TAMK_011525

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix AMAG Trove kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/ chargers and sub-assemblies. Kits accommodate various combinations of AMAG modules for up to eight (8) (T2AMK7F8(D), T2AMK7F8S(D)) or sixteen (16) (T3AMK75F16(D), T3AMK77F16S(D)) doors in a single enclosure.

Configuration Chart:

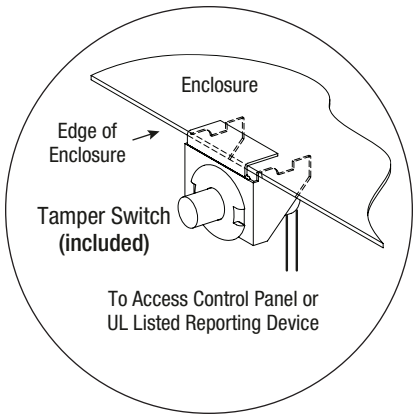
Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8(CB) or ACMS8(CB) Access Power Controllers' outputs	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fused or PTC Outputs	ACM8(CB) Board Input Fuse Rating	ACM8(CB) Board Output Fuse (PTC) Rating	ACMS8(CB) Board Input Fuse (PTC) Rating	ACMS8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating
T2AMK7F8	4.5	6.3A/ 250V	15A/ 32V	24VDC @ 9.4A	8	8	10A/ 250V	3.5A/ 250V	–	–	10A/ 32V	3A/ 32V
T2AMK7F8D							10A/ 250V	2.5A	–	–	9A	2.5A
T2AMK7F8S	4.5				8	8	–	–	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T2AMK7F8SD							–	–	9A	2.5A	9A	2.5A
T3AMK75F16	8.0	6.3A/ 250V 5A/ 250V		24VDC @ 9.4A 12VDC @ 9.7A	16	16	–	–	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T3AMK75F16D							–	–	9A	2.5A	9A	2.5A
T3AMK77F16S	9.0	6.3A/ 250V		24VDC @ 9.4A	16	16	–	–	15A/ 32V	3A/ 32V	10A/ 32V	3A/ 32V
T3AMK77F16SD							–	–	9A	2.5A	9A	2.5A

Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

1. Remove backplane from enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the three upper screws, level and secure. Mark the position of the lower three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch(es) (Altronix Model TS112 or equivalent) in desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side *(Fig. 1, pg. 2)*. Connect tamper switch(es) wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.
4. Connect unswitched AC power (115VAC 60Hz) to terminals marked [L, N]. Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground. Green "AC" LED on power supply board will turn on. This light can be seen through the LED lens on the door of the enclosure.
   Keep power-limited wiring separate from non power-limited wiring (115VAC 60Hz Input, Battery Wires). Minimum 0.25" spacing must be provided.
   CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment. There are no user serviceable parts inside.
   Refer installation and servicing to qualified service personnel.
5. Measure voltage before connecting devices. This helps avoiding potential damage.
6. Mount AMAG modules to TAM2 or TAM3 backplane, refer to *page 3-6*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow104NB, eFlow102NB and corresponding *Sub-Assembly Installation Guides* for the following models: ACM8(CB), ACMS8(CB), PDS8(CB) and VR6 for further installation instructions.

Fig. 1



Hardware:

Nylon Spacer | 5/16" Pan Head Screw | Lock Nut

T2AMK7F8(D): Configuration of AMAG M2150 Modules:

1. Align the AMAG modules on the backplane to match the modules' mounting holes with pems provided.
2. Fasten spacers (provided) to pems that match the hole pattern for AMAG M2150 and 2150 modules.
3. Mount AMAG modules to spacers utilizing 5/16" pan head screws (provided) *(Fig. 2, pg. 3)*.
   Note: AMAG M2150 modules have specific markings. Please orient modules in the appropriate position according to the *Fig. 2* below.
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Boards	Pem Mounting
AMAG M2150-AC24/4, M2150-4DC Boards	Ⓐ
AMAG M2150-2DC Board	Ⓑ
AMAG M2150-2DBC Board	Ⓒ
AMAG M2150-4DBC, M2150-8DBC Boards	Ⓓ

Fig. 2 - **T2AMK7F8(D) Configurations**

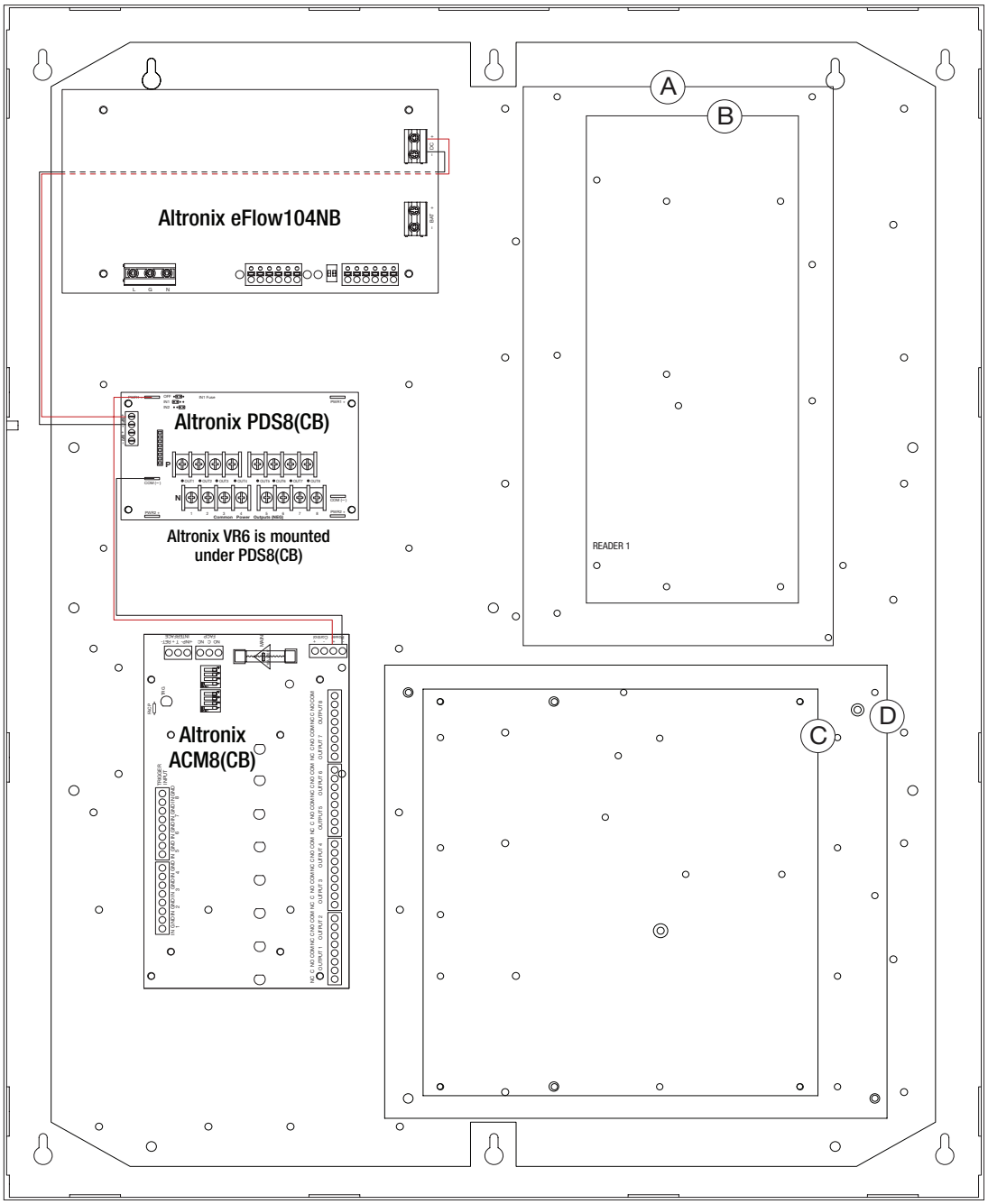
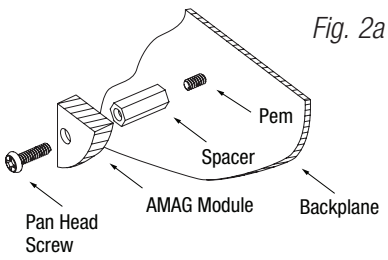


Fig. 2a



T2AMK7F8S(D): Configuration of AMAG M2150 Modules:

1. Align the AMAG modules on the backplane to match the modules' mounting holes with pems provided.
2. Fasten spacers (provided) to pems that match the hole pattern for AMAG M2150 and 2150 modules.
3. Mount AMAG modules to spacers utilizing 5/16" pan head screws (provided) *(Fig. 3, pg. 4)*.
   Note: AMAG M2150 modules have specific markings. Please orient modules in the appropriate position according to the *Fig. 3* below.
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Boards	Pem Mounting
AMAG M2150-AC24/4, M2150-4DC Boards	Ⓐ
AMAG M2150-2DC Board	Ⓑ
AMAG M2150-2DBC Board	Ⓒ
AMAG M2150-4DBC, M2150-8DBC Boards	Ⓓ

Fig. 3 - **T2AMK7F8S(D) Configurations**

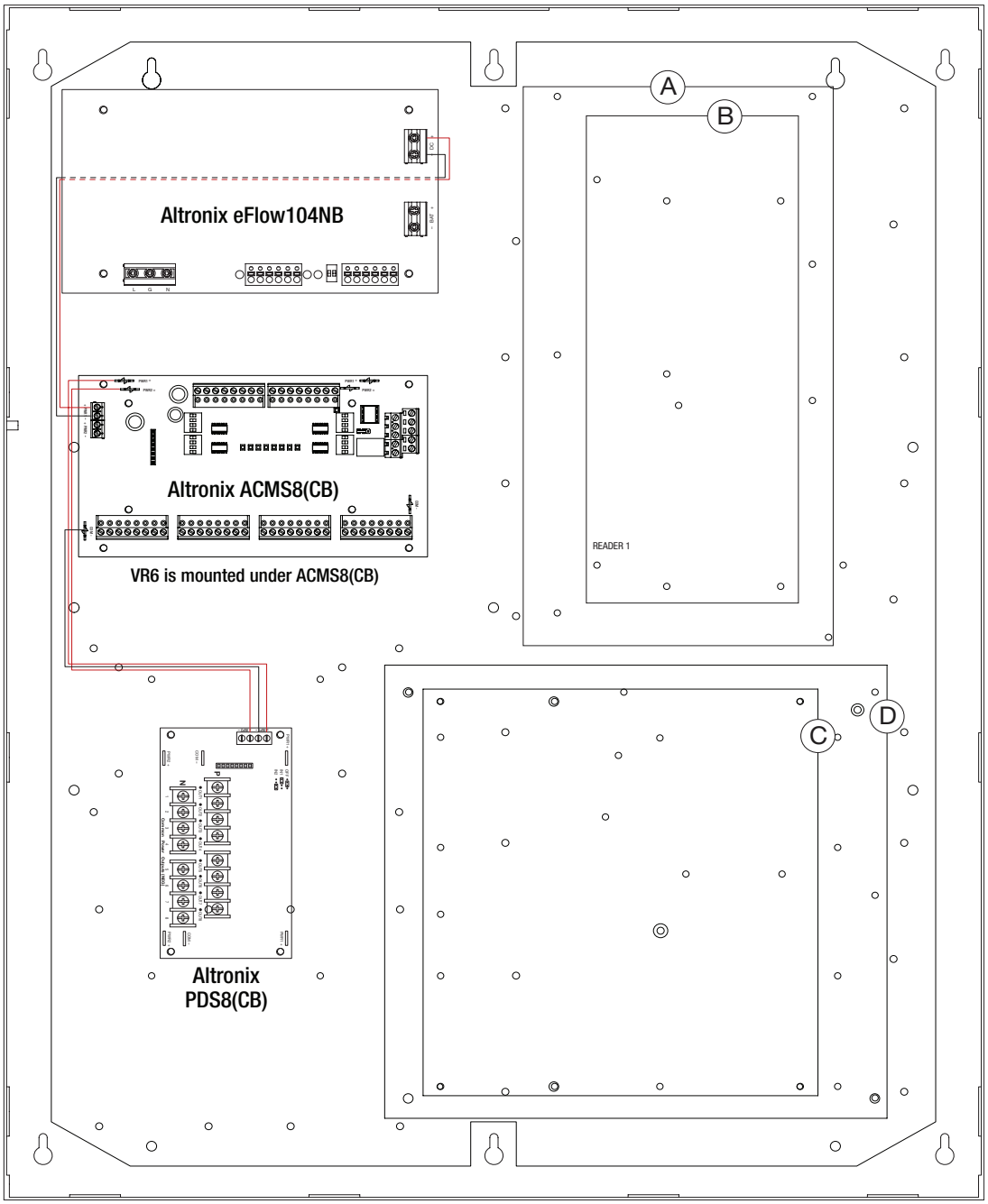
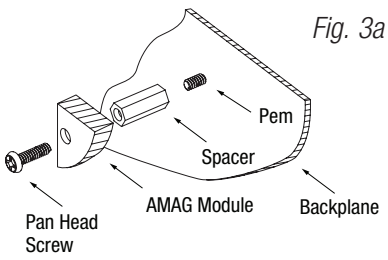


Fig. 3a



T3AMK75F16(D): Configuration of AMAG M2150 Modules:

1. Align the AMAG modules on the backplane to match the modules' mounting holes with pems provided.
2. Fasten spacers (provided) to pems that match the hole pattern for AMAG M2150 modules.
3. Mount AMAG modules to spacers utilizing 5/16" pan head screws (provided) *(Fig. 4, pg. 5)*.
   Note: AMAG M2150 modules have specific markings. Please orient modules in the appropriate position according to the *Fig. 4* below.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Boards	Pem Mounting
AMAG M2150-DBU	Ⓐ
AMAG M2150-AC24/4, M2150-4DC	Ⓑ
AMAG M2150-4DBC, M2150-8DC, M2150-8DBC	Ⓒ

Fig. 4 - **T3AMK75F16(D) Configurations**

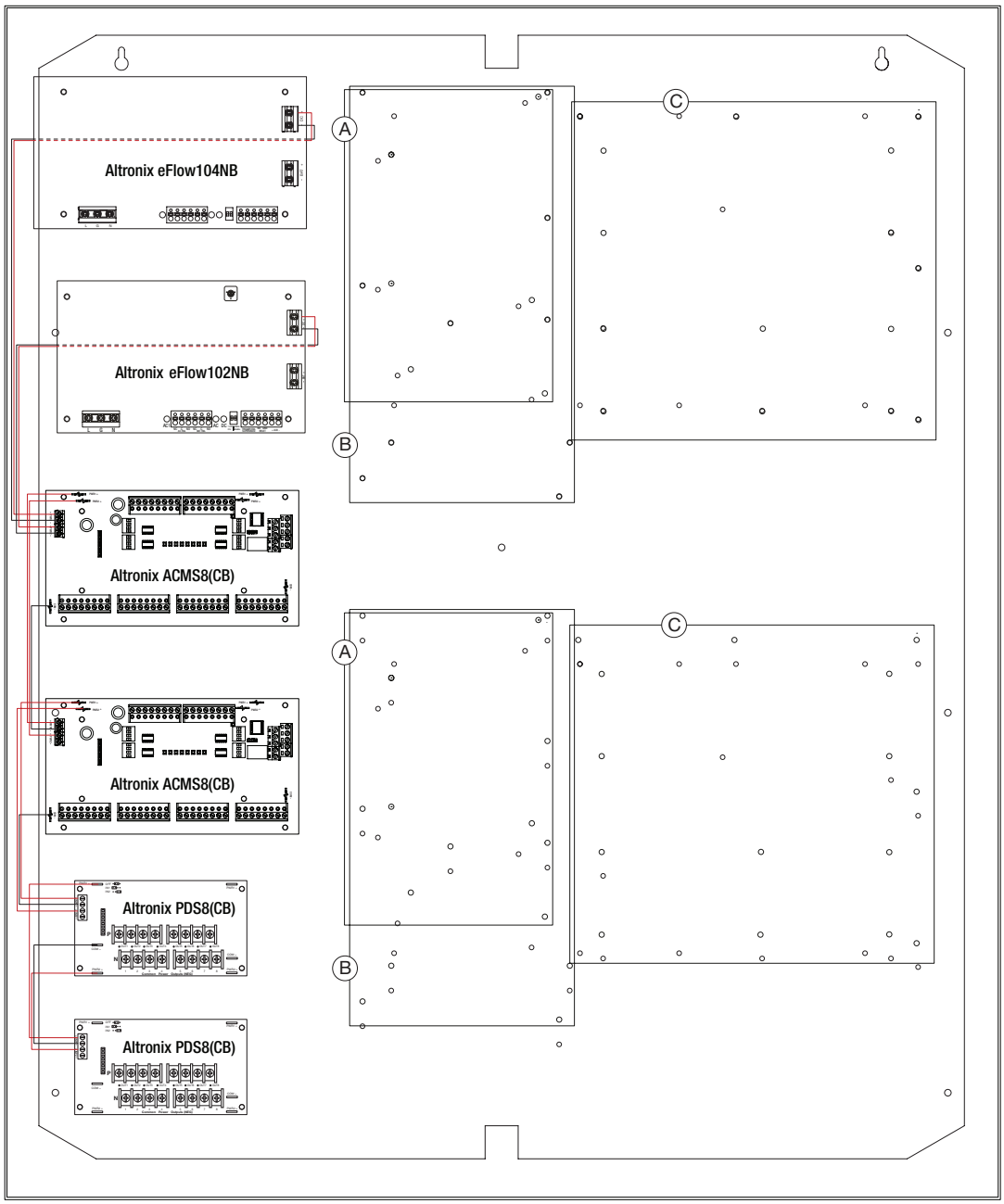
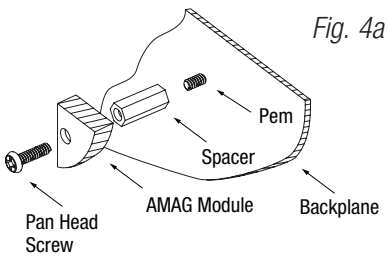


Fig. 4a



T3AMK77F16S(D): Configuration of AMAG M2150 Modules:

1. Align the AMAG modules on the backplane to match the modules' mounting holes with pems provided.
2. Fasten spacers (provided) to pems that match the hole pattern for AMAG M2150 modules.
3. Mount AMAG modules to spacers utilizing 5/16" pan head screws (provided) *(Fig. 5, pg. 6)*.
   Note: AMAG M2150 modules have specific markings. Please orient modules in the appropriate position according to the *Fig. 5* below.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Boards	Pem Mounting
AMAG M2150-DBU	Ⓐ
AMAG M2150-AC24/4, M2150-4DC	Ⓑ
AMAG M2150-4DBC, M2150-8DC, M2150-8DBC	Ⓒ

Fig. 5 - **T3AMK77F16S(D) Configurations**

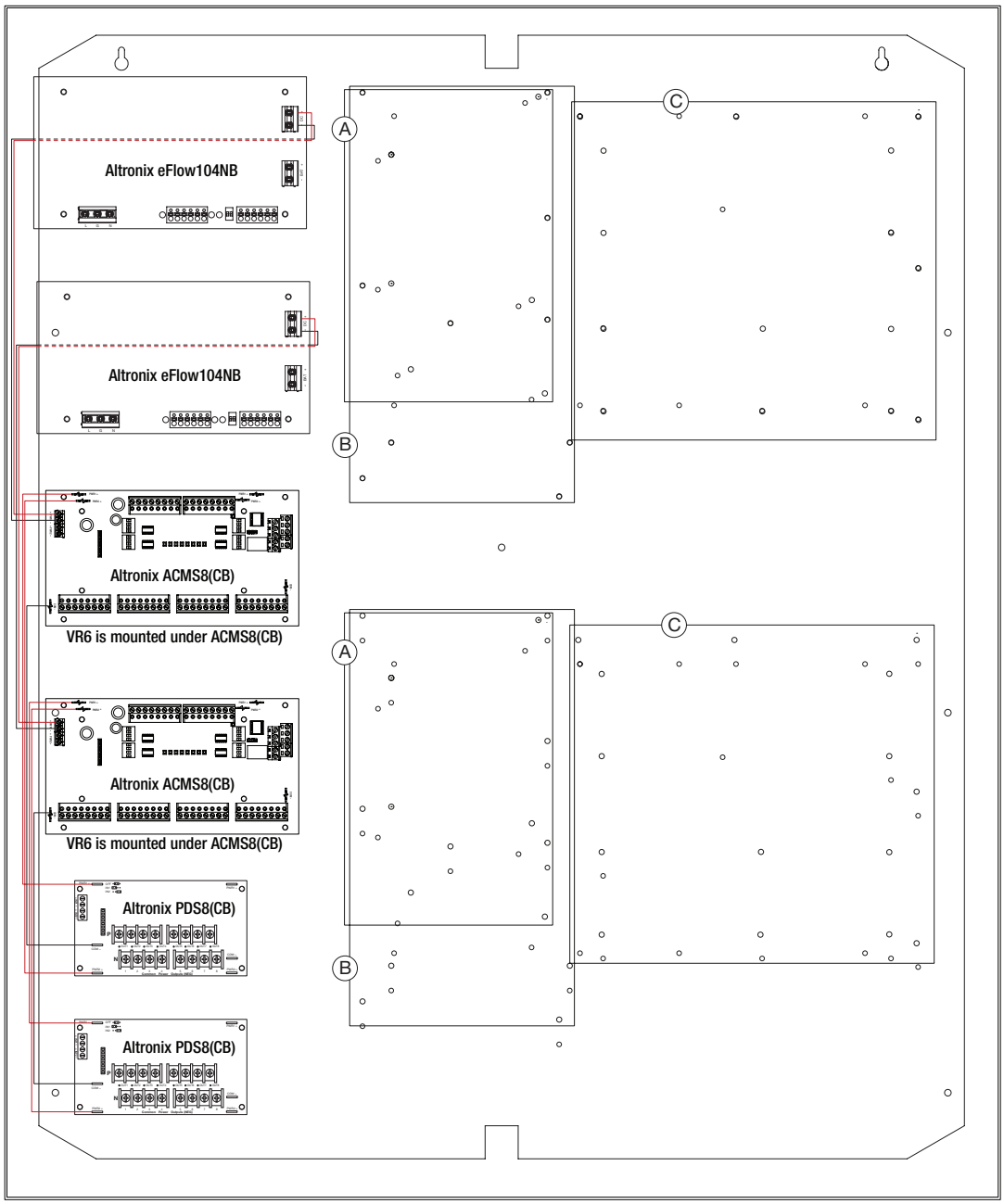
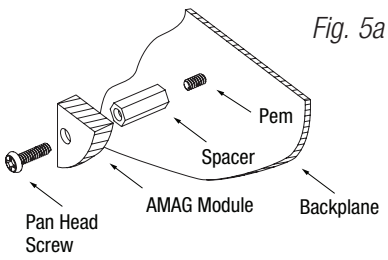
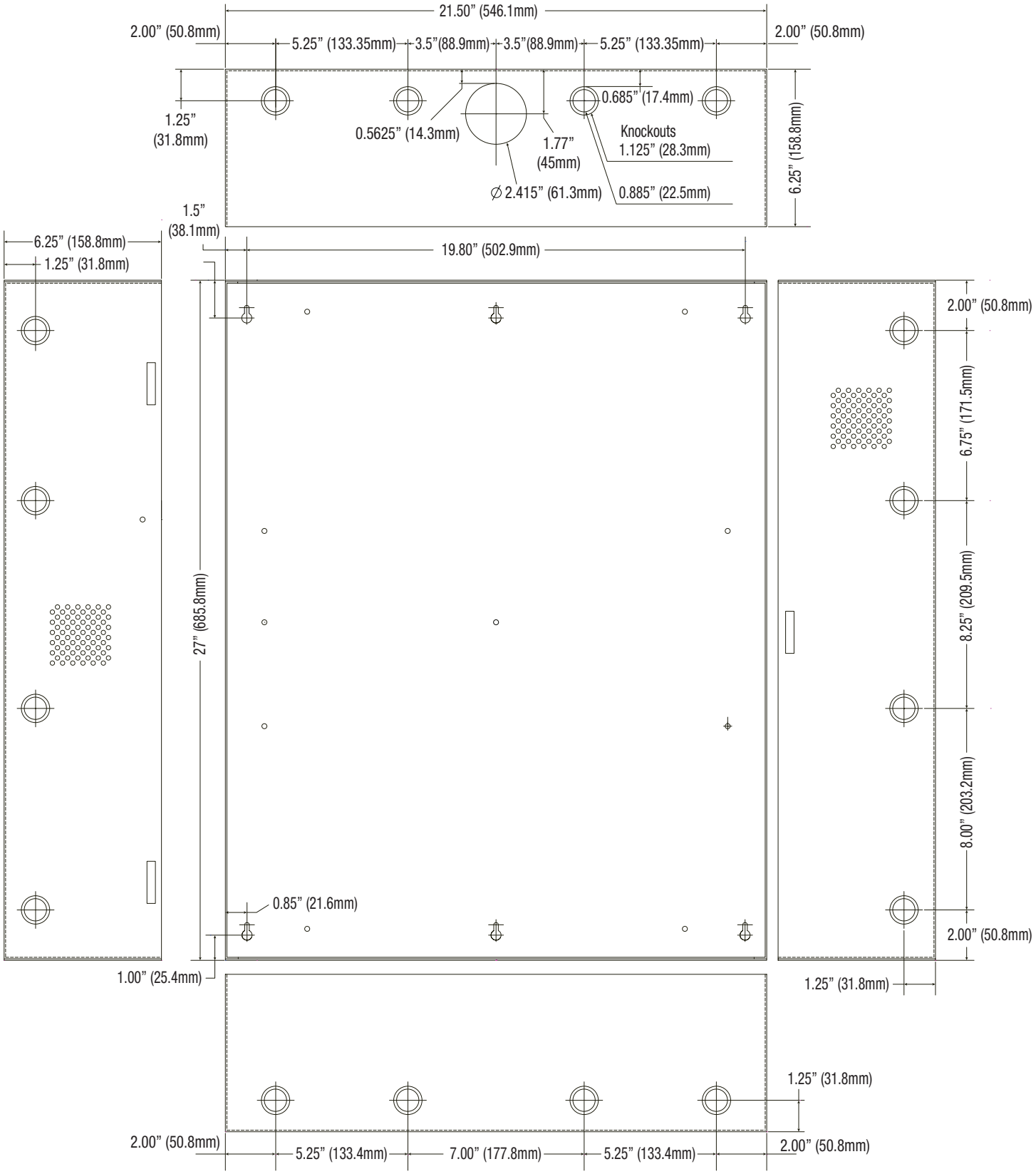


Fig. 5a



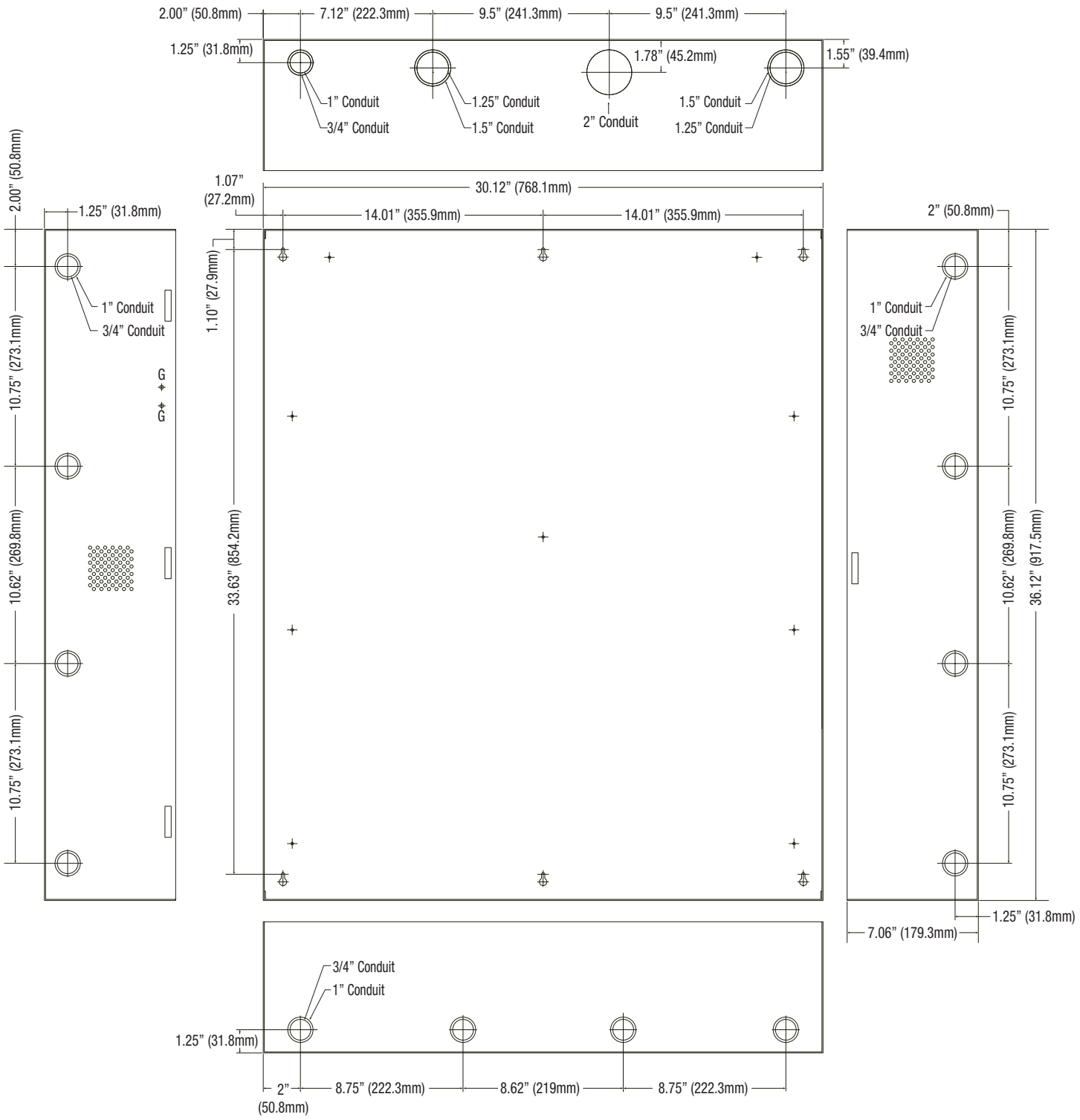
T2AMK7F8(D) and T2AMK7F8S(D) Enclosure Dimensions (H x W x D approximate)**:**

27.25” x 21.5” x 6.5” (692.15mm x 546.1mm x 165.1mm)



T3AMK77F16S(D) Enclosure Dimensions (H x W x D approximate)**:**

36.12” x 30.125” x 7.06” (917.5mm x 768.1mm x 179.3mm)



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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