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SQUARE D
Instruction Bulletin

Bulletin No. 50006-360-09
July, 1993
Raleigh, NC, U.S.A.

ALTIVAR™ 16 Radio Frequency Interference (RFI) Attenuating Filters

VW3-A16401 ... 407

INTRODUCTION

This bulletin contains the ratings, dimensions, mounting (page 2-3) and wiring information (page 4) for Altivar 16 radio interference (RFI) attenuating filters.

RATINGS

Table 1 RFI Filter Ratings

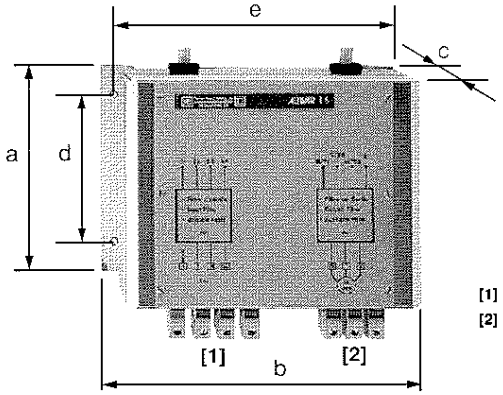
RF Filter	For Use With	Rating
VW3-A16401	ATV-16U09M2 ATV-16U18M2	208-240 V; 8 A [1] / 4 A [2]
VW3-A16402	ATV-16U29M2 (1ø)	208-240 V; 14 A [1] / 7.1 A [2]
VW3-A16403	ATV-16U29M2 (3ø) ATV-16U41N4 ATV-16U54N4	400- 460 V; 11.7 A [1] / 7.8 A [2]
VW3-A16404	ATV-16U41M2 (1ø)	208-240 V; 20 A [1] / 10 A [2]
VW3-A16405	ATV-16U41M2 (3ø)	208-240 V; 15 A [1] / 10 A [2]
VW3-A16406	ATV-16U18N4 ATV-16U29N4	400-460 V; 6.2 A [1] / 4.1 A [2]
VW3-A16407	ATV-16U72N4	400-460 V; 15.8 A [1] / 10.5 A [2]

[1] Line-side current rating.
[2] Load-side current rating.

FILTER DIMENSIONS

Table 2 Dimensions

RF Filter	a	b	c	d	e	Max. Distance Between Controller and Filter
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
VW3-A16401	4.84 (123)	5.91 (150)	4.72 (120)	3.15 (80)	5.12 (130)	3.0 (76.2)
VW3-A16402 VW3-A16403 VW3-A16405 VW3-A16406	5.63 (143)	7.48 (190)	5.75 (146)	3.94 (100)	6.69 (170)	3.0 (76.2)
VW3-A16404 VW3-A16407	7.21 (183)	7.48 (190)	5.75 (146)	5.52 (140)	6.69 (170)	3.0 (76.2)



[1] Power (L1, L2, L3) and ground connections.
[2] Motor (T1, T2, T3) connections.

Figure 1 RFI Filter

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MOUNTING

Two kits are available for mounting VW3-A16401 … 407 filters. Kit VW3-A16408 is for mounting VW3-A16401 (see Figure 2). Kit VW3-A16409 is for mounting VW3-A16402 … 407 filters (see Figure 3).

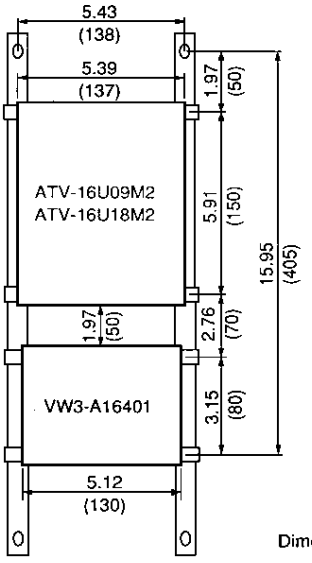
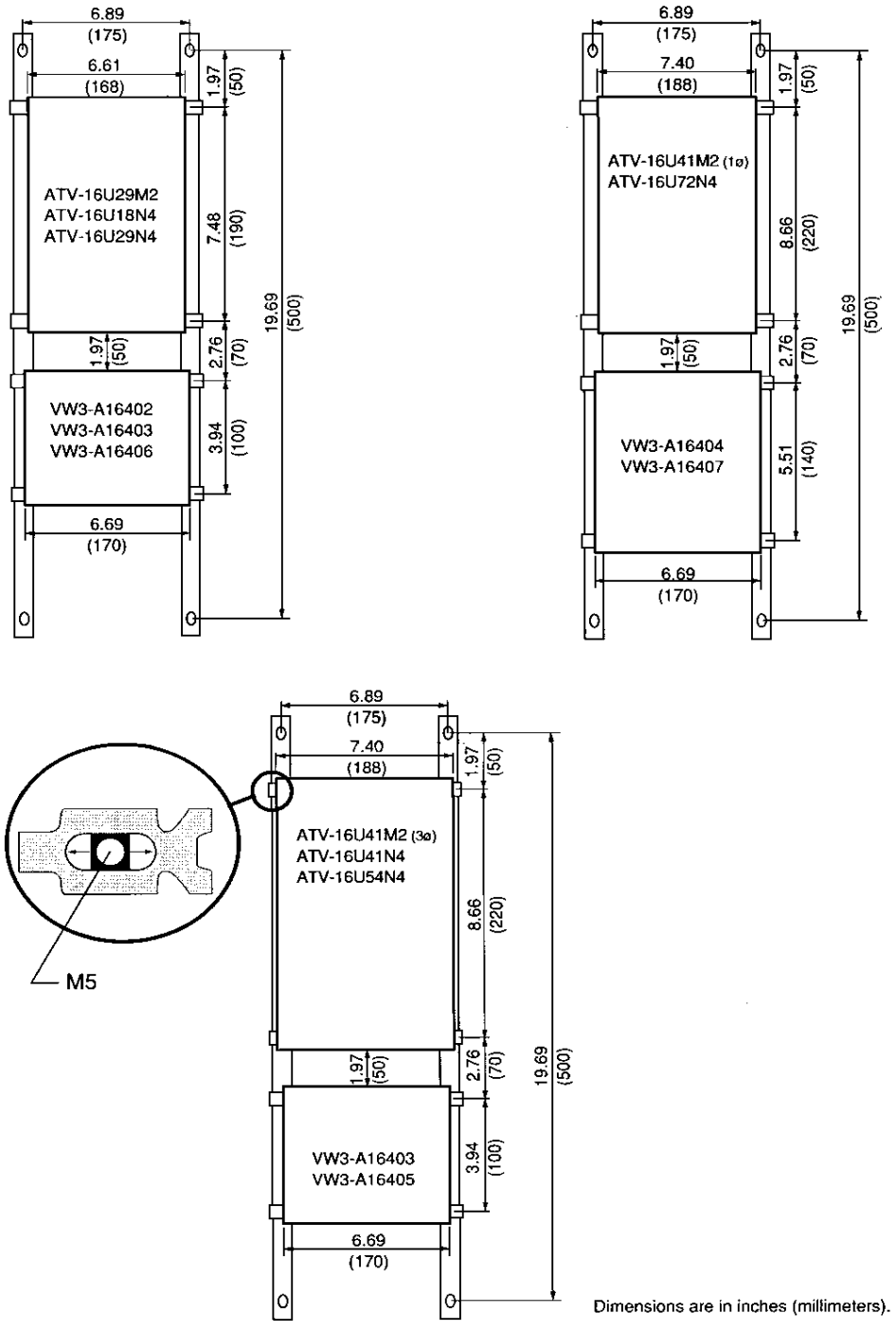


Figure 2 Mounting Dimensions for the VW3-A16408 Kit

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Dimensions are in inches (millimeters).

Figure 3 Mounting Dimensions for the VW3-A16409 Kit

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WIRING

⚠ DANGER

HAZARDOUS VOLTAGE.

- **Ground equipment per diagram. All apparatus must be properly grounded before applying power.**
- **Do not use metallic conduits as a ground conductor.**

Failure to observe these precautions will cause electrical shock, resulting in severe personal injury or death.

Follow the wiring guidelines below when installing a single controller:

- ❑ Follow grounding methods in Figure 4.
- ❑ Use twisted shielded cable on control connections.
- ❑ Use metallic conduit or shielded cable for external control and power wiring.
- ❑ Route all wiring away from controller.
- ❑ Separate control wiring from all power wiring. **Do not run in the same conduit or in the same shielded cable!**
- ❑ Separate motor power wiring from all other power wiring. **Do not run in the same conduit or in the same shielded cable!**

Follow the wiring guidelines below when installing multiple controllers.

- ❑ Follow single controller guidelines.
- ❑ Keep motor power wiring of each controller separate. **Do not run in the same conduit or in the same shielded cable!**

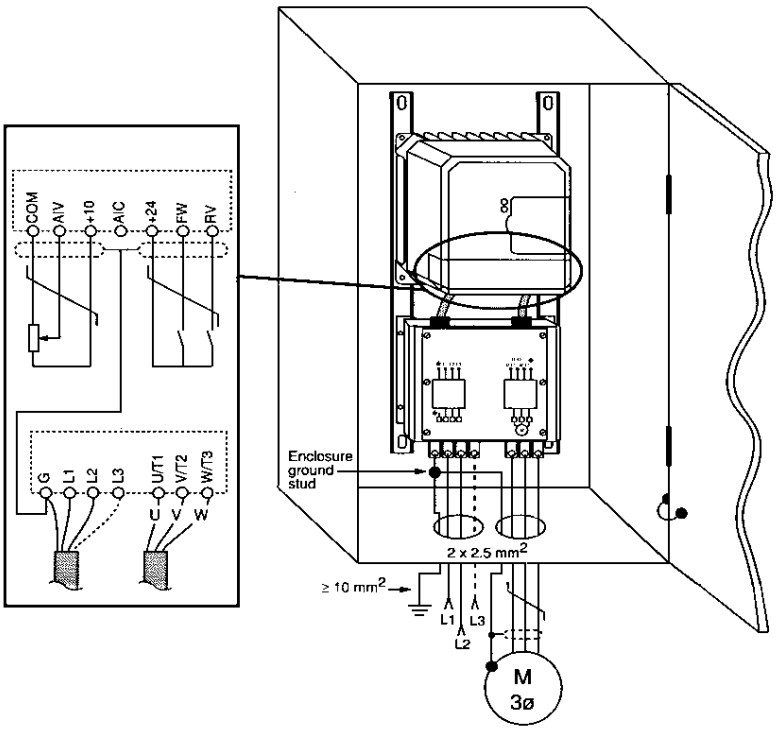


Figure 4 Wiring the Radio Frequency Attenuating Filter

PLEASE NOTE:

Electrical equipment should be serviced only by qualified electrical maintenance personnel, and this document should not be viewed as sufficient instruction for those who are not otherwise qualified to operate, service or maintain the equipment discussed. Although reasonable care has been taken to provide accurate and authoritative information in this document, no responsibility is assumed by Square D for any consequences arising out of the use of this material.

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