

CAPACITALK™

MYRON ZUCKER INC.

36825 Metro Court • Sterling Heights, MI 48312-1013 • www.myronzucker.com

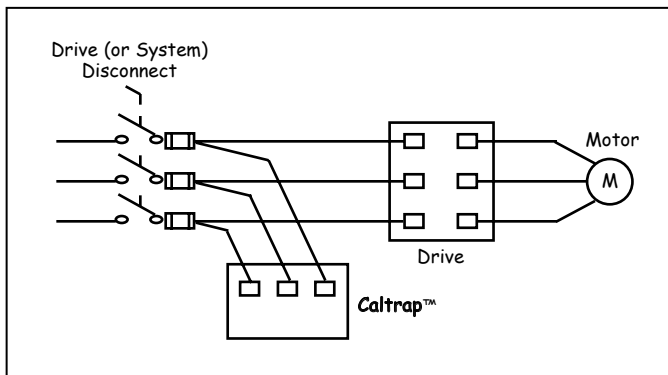
Phone: (586) 979-9955 / (800) 245-0583 • Fax: (586) 979-9484

No. 110

Connecting *Caltraps*™ to Your Electrical System?

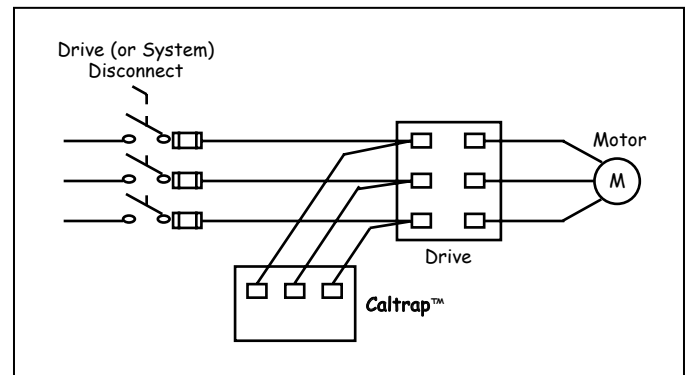
At Myron Zucker, Inc., we receive many calls about connecting *Caltrap*™ brand harmonic filters. We will help you with this question.

One key fact is important to keep in mind. The *Caltrap*™ received its name because it can be thought of as a device that “traps” harmonic currents between the drive and the trap itself. It is filtering out most of the damaging harmonic currents, keeping them from going upstream of the connection point. That is why harmonic filters are most useful when connected as close to the harmonic source as possible.



Good

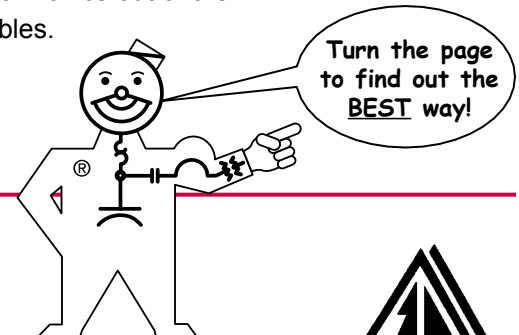
Connecting the *Caltrap*™ to the drive (or system) disconnect is the quickest and easiest way to connect your *Caltrap*™. But it is *not the best* way, because it allows harmonics on your drive cables, flowing from the drive to the *Caltrap*™ connection point.



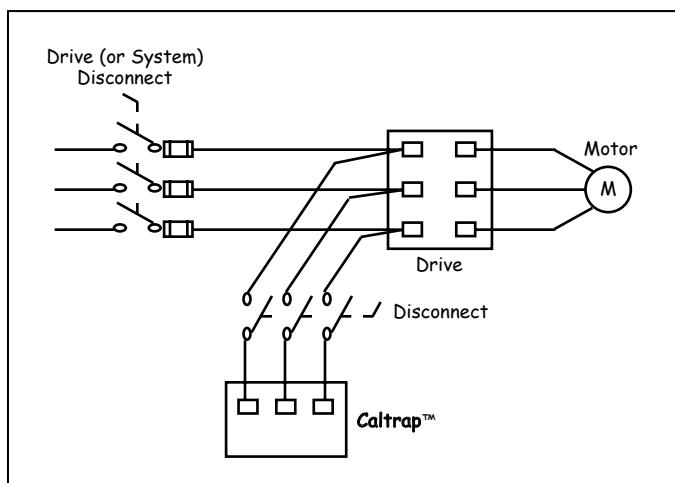
Better

Connecting the *Caltrap*™ to the drive input terminals is a better way to connect your *Caltrap*™. The closer you connect the *Caltrap*™ to the drive, the more you are able to keep the harmonics out of the drive feed cables.

(continued on back)



(continued from front)

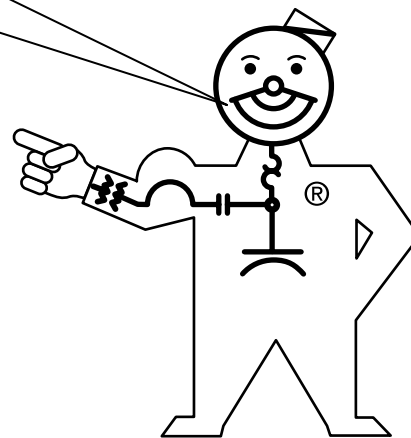


Best

Connecting the **Caltrap™** to the drive terminal and also adding a disconnect is the best way to connect your **Caltrap™**. Not only do you keep harmonic currents from the drive cables, you also have a means to disconnect the **Caltrap™** from the drive circuit. This way, if maintenance is needed on the **Caltrap™**, you can still run your drive. This is particularly important if you cannot shut down your process any time you might want to—for example, in an injection molding operation.

Make sure you size your **Caltrap™** disconnect, fuses and wiring by 135% of the rated current of the **Caltrap™**.

Caltraps™ are best connected right at your drive. Don't let the harmonics travel back out onto your electrical system.



If you have any questions for **CAL** about your power factor capacitors, simply write to **Myron Zucker, Inc.**, or e-mail us at info@myronzuckerinc.com.

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