

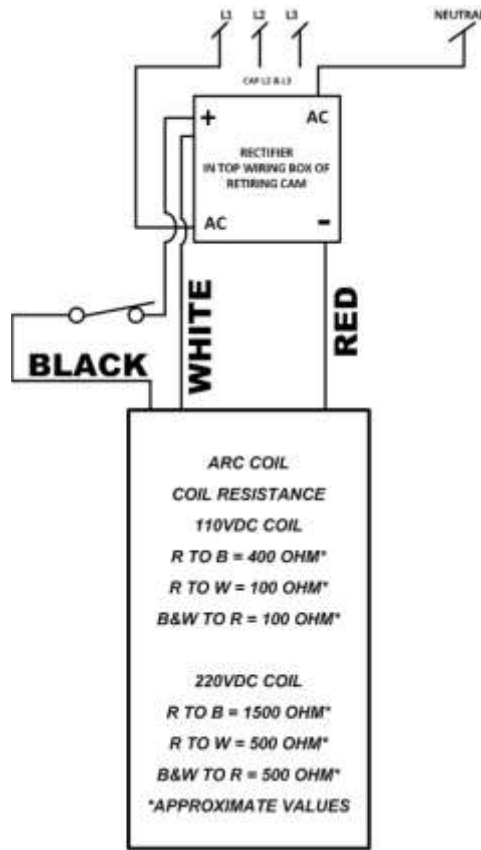
C.J. ANDERSON & CO | ARC Retiring Cam



The C.J. Anderson Retiring Cam (ARC), made in the USA, is a Self Contained Retractable Cam. Its modular design permits replacement of all component parts in the field. This is a 2.75" wide by 12.25" long cam which can be used on any type of door lock.

Specifications: *Current Draw : 1.4 AMPS / Stroke : 1.5 inches / Stroke Force : 9 lbs. Coil Insulation System : 105 C / Wire Range : 12 to 20 Gauge Torque : 4 pounds per inch*

INTERNAL COIL WIRING DIAGRAM



NEMA 4/12 – WATER/DUST RESISTANT

ITEM: 790-501-110VAC
ARC RETIRING CAM-110VAC

ITEM: 790-501-110VDC
ARC RETIRING CAM-110VDC

ITEM: 790-501-220VAC
ARC RETIRING CAM-220VAC

ITEM: 790-501-220VDC
ARC RETIRING CAM-220VDC

HAZARDOUS LOCATION – CLASS 1, DIV. 2

ITEM: 790-501P-110VAC
ARC RETIRING CAM-110VAC – HAZ. LOC.

ITEM: 790-501P-110VDC
ARC RETIRING CAM-110VDC – HAZ. LOC.

ITEM: 790-501P-220VAC
ARC RETIRING CAM-220VAC – HAZ. LOC.

ITEM: 790-501P-220VDC
ARC RETIRING CAM-220VDC – HAZ. LOC.

OPTIONAL ACCESSORIES – CAM TIMER

Cam Protection Timers are intended to be wired in between the Retiring Cam and the Control Circuit.

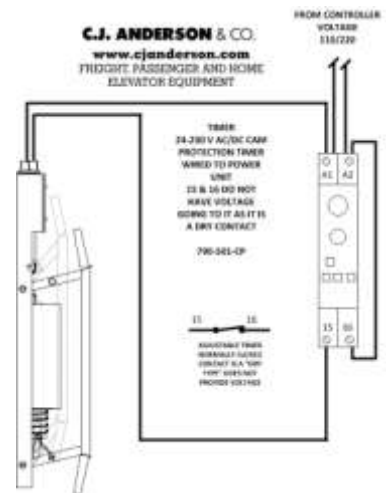
In some instances elevators are stopped between landings for long periods of time. When the Retiring Cam is energized, while out of the door zone, this timer will automatically cut the voltage to the unit allowing the Retiring Cam to drop and not stay energized.

Our ARC is designed to fail when it reaches a temperature of 105 degrees Celsius. This is a safety feature required by UL in order to prevent a fire. If the elevator is stopped between levels for long periods of time the retiring cam will cook itself. The protection cam timer is designed to prevent this from happening. Simply wire it between your cam and controller circuit and you the unit will automatically de energize after a certain period of time.

ORDER ITEM: 790-501-CP

ADJUSTABLE CAM PROTECTION TIMER – 110-220V AC/DC

(MUST BE INSTALLED INSIDE ENCLOSED CONTROLLER CABINET OR JUNCTION BOX SUITABLY RATED FOR THE ENVIRONMENT)

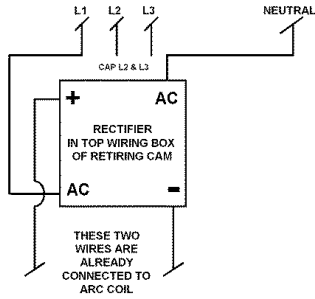


IMPORTANT WARNING

Elevator Equipment **MUST BE** maintained and installed by qualified elevator service technicians and elevator contractors. Most states require that both mechanic and elevator company be licensed in order to perform repair and replacement. If you are not a licensed elevator company or mechanic you are putting your life and those that ride elevators at risk. Failure to have a qualified technician repair or install elevator equipment will nullify any warranty and may cause death or injury.

C.J. ANDERSON & CO | ARC Retiring Cam

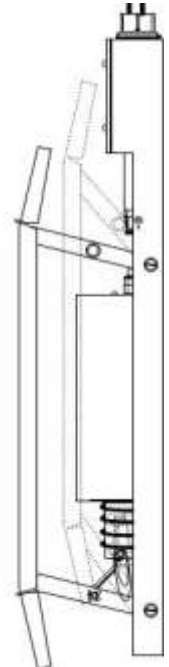
AC – STANDARD WIRING – 110/220VAC



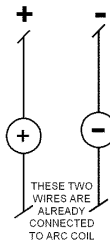
When replacing a 3 Phase Motorized Cam, simply connect one “HOT” phase to the AC Side on the rectifier and the other AC to a common or neutral if you are replacing a 220. To ensure that your retiring cam lasts as long as possible connect as shown! If you connect to of your “HOT” lines to the cam this will create the unit to heat up prematurely and decreases the life of the cam.

We do not recommend that two ARC Retiring Cams be wiring in tandem, for example, front and rear openings!

Mount ARC as shown right with conduit entrance at top of unit. Do Not Modify Stroke of Cam or install upside down as it will cause the unit to fail prematurely.



DC – STANDARD WIRING – 110/220VDC



Our ARC Retiring Cam is a coil operated cam, meaning it's already a DC circuit. Please note that the coils are dual wound, meaning that the secondary windings are cut out as soon as the cam reaches the energized position. This helps keep the temperature of the unit as low as possible.

We do not recommend that two ARC Retiring Cams be wiring in tandem, for example, front and rear openings! Long periods of time where the ARC is energized will cause the unit to heat beyond 105 degrees celsius and will cause the cam to fail.

TROUBLE SHOOTING YOUR ARC

The ARC Retiring Cam has been an active product of C.J. Anderson & Company since 1980. It's one of the more simpler devices that we manufacture.

Problem: ARC Does Not Energize

- Check Incoming Voltage to Unit, 10% over or under 110 or 220 will cause damage to the coil. - Solution: Transform Voltage To Correct Setting

- Check switch on side of unit for damage. This cuts out a portion of the coil windings which helps minimize heat. Switch can fail in closed position and the unit will continue to run. If it fails in the open position the cam will energize with some manual help.

Solution: Replace Switch if this is the case.

Problem: Repeatedly Replacing Retiring Cams

If you have had to replace your retiring cam please verify the following.

- Where is the elevator when it shuts down? If it's stuck between floors the cam will stay energized and the coil is going to get hot and fail at 105 degrees Celsius. It's designed to fail so that it doesn't start a fire. - Solution: Purchase a Cam Protection Timer: - Part Number: 790-501-CP , New Retiring Cam or Coil Assembly.

- Is the retiring cam located on a rear opening that's staggered? If so there's a good chance that the cam is staying energized more than it should. Purchase a Cam Protection Timer: - Part Number: 790-501-CP , New Retiring Cam or Coil Assembly.

- What's the voltage of the incoming voltage to the retiring cam? If it fluctuates or is 10% higher than what the retiring cam is rated for you're going to burn up the coil much quicker.

- Running car on Inspection Service over long periods of time. This will cause the cam to overheat and will fail.

Our ARC Retiring Cam is a coil operated

REPLACEMENT PARTS

ITEM:	DESCRIPTION
790-591-110V	ARC – 110V DC COIL
790-591-220V	ARC – 110V DC COIL
790-531	ARC RECTIFIER – AC TO DC
790-523	ARC MICRO SWITCH NEMA 4/12
720-110HS	ARC XP MICRO SWITCH

MAINTENANCE

Remember that all elevator devices require maintenance. The frequency and duration from project to project and are dependent upon how much the elevator is used and the environment the equipment is installed in. Make sure to lubricate all pivot points including the coil plunger to ensure the unit moves freely. For more information or to order Call: 1-800-252-1910 or visit <http://www.cjanderson.com/elevatorretiringcams.aspx>

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