

Dynamic VAR compensation uses rapid switching techniques to insert and remove capacitive reactance as demanded by dynamic loads. Many electrical loads have very rapid requirements for reactance that cannot be satisfied with traditional automatic (contactor) switching methods.

These highly dynamic requirements for reactive power can only be satisfied with the most rapid switching techniques that match reactive compensation to load demand. Myron Zucker, Inc. offers a complete range of rapid switching products to provide reactive power compensation, harmonic filtering, and voltage support.

APPLICATIONS

- ◆ Designed for rigorous applications, including harmonic-rich environments

BENEFITS OF DYNAMIC VAR COMPENSATION

- ◆ VAR compensation is directly matched to dynamic load requirements
- ◆ Stabilizes facility voltage
- ◆ Reduces facility voltage drops
- ◆ Improves system electrical efficiency
- ◆ Harmonic distortion can be minimized
- ◆ Power factor can be maximized
- ◆ Flicker can be reduced substantially
- ◆ Increase system capacity

STANDARD RATINGS

- ◆ 208 to 690 V
- ◆ 3-phase, 3-wire
- ◆ 50 to 60 Hz

ENCLOSURES

- ◆ Type 1
- ◆ Type 3R
- ◆ Type 12

Other enclosures available upon request



STANDARD FEATURES

- ◆ Available tuned or detuned
- ◆ Reactors use PolyGap™ core constructions to minimize losses, audible noise, and stray magnetic fields
- ◆ VAR Capacity
 - Unlimited
- ◆ VARs / switch
 - 25 to 150 kVAr per switch
- ◆ Response time
 - 100 m-sec to sub-cycle (adjustable)
- ◆ 1 operation per cycle maximum
- ◆ 2 (switches 2 out of 3 phases, no neutral connections)
- ◆ Complies with NEMA, ANSI, UL, CUL, IEC, EIA, IEEE, NFPA requirements

ZT Capacitrap Selection Chart

The following chart shows a standard selection of ZT Capacitrap at 480 V. They are available at both 50 and 60 Hz. Please consult page 3 for other voltages and options.

Catalog Number	kVAr	kVAr per Step	Step Count	Ampere Rating	Disconnect Ampere Rating	# of Sections	Dimensions (Inches & Lbs.)			
							Height	Width	Depth	Weight
ZT 0100 480 01 D S 04 A M	100	25	4	162	300	1	82.68	23.62	31.5	600
ZT 0125 480 01 D S 05 A M	125	25	5	203	300	1	82.68	23.62	31.5	618
ZT 0150 480 01 D S 06 A M	150	25	6	244	300	1	82.68	23.62	31.5	654
ZT 0150 480 01 D S 03 B M	150	50	3	244	300	1	82.68	23.62	31.5	658
ZT 0175 480 01 D S 07 A M	175	25	7	284	300	1	82.68	23.62	31.5	720
ZT 0200 480 01 D S 08 A M	200	25	8	325	400	1	82.68	23.62	31.5	837
ZT 0200 480 01 D S 04 B M	200	50	4	325	400	1	82.68	23.62	31.5	756
ZT 0250 480 01 D S 05 B M	250	50	5	406	500	1	82.68	23.62	31.5	775
ZT 0300 480 01 D S 06 B M	300	50	6	487	500	1	82.68	23.62	31.5	901
ZT 0300 480 01 D S 03 D M	300	100	3	487	500	1	82.68	23.62	31.5	833
ZT 0350 480 01 D S 07 B M	350	50	7	568	600	1	82.68	23.62	31.5	936
ZT 0400 480 01 D S 08 B M	400	50	8	650	800	2	82.68	47.24	31.5	1,514
ZT 0400 480 01 D S 04 D M	400	100	4	650	800	1	82.68	23.62	31.5	990
ZT 0450 480 01 D S 03 F M	450	150	3	731	800	1	82.68	23.62	31.5	1,198
ZT 0500 480 01 D S 04 E M	500	125	4	812	1000	1	82.68	23.62	31.5	1,213
ZT 0600 480 01 D S 12 B M	600	50	12	974	1000	2	82.68	47.24	31.5	2,275
ZT 0600 480 01 D S 06 D M	600	100	6	974	1000	2	82.68	47.24	31.5	1,667
ZT 0700 480 01 D S 07 D M	700	100	7	1134	1600	2	82.68	47.24	31.5	1,969
ZT 0800 480 01 D S 08 D M	800	100	8	1299	1600	2	82.68	47.24	31.5	1,987
ZT 0900 480 01 D S 06 F M	900	150	6	1461	1600	2	82.68	47.24	31.5	2,397
ZT 1000 480 01 D S 08 E M	1000	125	8	1624	2000	2	82.68	47.24	31.5	2,431
ZT 1200 480 01 D S 12 D M	1200	100	12	1949	2000	3	82.68	70.87	31.5	2,981
ZT 1500 480 01 D S 12 E M	1500	125	12	2436	2500	3	82.68	70.87	31.5	3,649
ZT 1800 480 01 D S 12 F M	1800	150	12	2923	3000	4	82.68	94.49	31.5	4,817

Standard Current Transformers

A current transformer (CT) must be rated for the amp rating of the switchboard it will measure.

In order to properly size a CT for a ZT Capacitrap system, multiply the nominal ampere rating by three (3).

ZT Capacitrap kVAr Ratings	Ampere Rating	Dimensions (Inches & Lbs.)	
		2 3/4" x 6 5/8"	4" x 11"
100	500/5	AC05-2	NOT AVAILABLE
125 - 200	1000/5	AC10-2	NOT AVAILABLE
250 - 300	1500/5	AC15-2	AC15-4
350 - 400	2000/5	AC20-2	AC20-4
450 - 500	2500/5	AC25-2	AC25-4
600	3000/5	AC30-2	AC30-4
700 - 800	4000/5	AC40-2	AC40-4
900 - 1000	5000/5	NOT AVAILABLE	AC50-4
1200	6000/5	NOT AVAILABLE	AC60-4

2 3/4" x 6 5/8" I.D.



4" x 11" I.D.



The ZT Capacitrap Part System

