

C-VAr[®] & T-VAr[®] LV Range

Low Voltage Power Factor Correction: C-VAr & T-VAr Range

The VARComp[®] C-VAr and T-VAr range of free-standing power factor correction cubicles offer a compact, modular design to provide automatic reactive power compensation of your electrical network up to any given kVAr requirement.

The VARComp[®] C-VAr range is non-detuned and designed for installation on electrical systems with little or low harmonic distortion. 440V capacitor dielectric is standard and for the more arduous conditions, a 525V derated option provides improved overload capacity where necessary.

Applying power factor correction schemes to any electrical network with increased levels of harmonics requires extra consideration. The VARComp[®] T-VAr range has been specifically designed for such applications: Detuned capacitors with 525V derated dielectric as standard withstand extra harmonic overload and negate the possibility of harmonic amplification caused by resonance.

(Capacitor dielectrics up to 690V available upon request)

Application of the latest technology and high quality components are built into every VARComp[®] product. Inherently low losses and the compact footprint of both the C-VAr and T-VAr range enables easy installation within the tightest of spaces.

The versatile modular design also provides ample incoming cable make-off space with a choice of top or bottom cable entry locations.

Enspec Power can provide a turnkey solution to all of your reactive power requirements, from initial feasibility studies through to load surveys, system modelling, design, manufacture and installation.

Please see the reverse for summary specification or contact one of our technical sales engineers for assistance. We will be pleased to help, whatever your reactive power requirements.



VArComp® C-VAr® & T-VAr® Range - Summary Specification

Capacitor dielectric voltage:	440Vac; 525Vac (\leq 690Vac on request)
Rated frequency:	50/60Hz
Capacitance tolerance:	-5% +10%
Discharge resistors:	\leq 50V within 60secs (UL standard 810)
Losses:	Approx 0.5W/kVAr (C-VAr® Range); Approx 4W/kVAr (T-VAr® Range)
Ambient temperature category:	-25/D; -25°C + 55°C (max); highest mean: 45°C/24hrs; 35°C/1yr 35°C/1yr
Safety features:	Self-healing dielectric; overpressure tear-off fuse
Impregnating agent:	ESTAprop® mineral oil, non-toxic biodegradable (non- PCB) ESTAdry® dry/gas filled on request
Statistical life expectancy:	>150,000 operating hours (ESTAprop®) >130,000 operating hours (ESTAdry®)
Capacitor Standards:	IEC 831-1+2; VDE 0560-46+47; EN 60831-1+2; 89/336/EWG; 92/31/EWG; 93/68/EWG; UL & ULc; CE

VArComp® Designation	Type	415V Output (kVAr)	Automatic Switching Stages (kVAr)	Dimensions H x W x D (mm)	Approx Weight (kgs)
C-VAr®	440V ac dielectric or 525V ac dielectric	50	(1 x 50)	900 x 600 x 400	60
		100	(2 x 50)		70
		150	(3 x 50)	1700 x 600 x 600	140
		200	(4 x 50)		150
		250	(5 x 50)	1900 x 600 x 500	180
		300	(6 x 50)		190
		350	(7 x 50)	2100 x 600 x 500	220
		400	(8 x 50)		230
T-VAr®	Detuned 525V ac dielectric	50	(1 x 50)	1700 x 600 x 800	200
		100	(2 x 50)		240
		150	(1 x 50) + (1 x 100)		270
		200	(2 x 100)		300
		250	(1 x 50) + (2 x 100)	2100 x 600 x 800	360
		300	(3 x 100)		390
		350	(1 x 50) + (3 x 100)	2300 x 600 x 800	460
		400	(4 x 100)		490

Other voltages and outputs are available upon request. Please contact one of our technical sales engineers for assistance. We will be pleased to help, whatever your capacitor requirements.

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All details correct at time of print. In the interest of ongoing product development, we reserve the right to alter specification without prior notice.