

The ACCUVAR controls the automatic system for correction of the power factor. It is a KVAR based controller which controls up to 15 capacitor banks optimally to achieve near unity power factor and also measures/calculates various electrical parameters. ACCUVAR is meant for use in three phase four wire electrical systems. The main features of the ACCUVAR are:

MEASUREMENT

ACCUVAR is three phase measuring controller, and hence need three CT inputs from the mains and also all the three phase and neutral connections. Need a CT input from the Capacitor Bank (for VAR mode operation). The parameters measured and displayed are all voltages, currents, power factor, all powers and all energies, average PF maintained since last reset and up to 15th ODD harmonics and THD figures for voltages and currents.

EASE OF INSTALLATION

CT primary and secondary of Mains as well as Capacitor, PT Gain, target PF are site programmable. ACCUVAR supports auto phase correction feature through programming mode with support of reference three phase capacitor bank. ACCUVAR has an autosense feature, which sense the sizes of the capacitor banks connected on each stage automatically with/without capacitor CT. No need to program bank sizes manually. It also supports ALARM on THD or PF value.

LOW CURRENT OPERATION

In FIFO/SFIFO control, operation requires 1% or 5% of the main load based on programming mode configuration.

CONTROL ACTION

ACCUVAR supports bigger font for Power Factor with inductive/capacitive symbol for LAG/LEAD indication. APFCR supports setting of target PF on lag as well lead side for all type of control action. Out of all supported control action, VAR is intelligent control action.

TECHNICAL DATA SHEET

PARAMETER					
TYPE		NAME		STATISTICS	
		Su	pply	Three Phase and Neutral of 3P4W system	
INPUT		Voltage		Direct Voltage Input Burden	: Up to 300V L-N : 0.5 VA
		Current		Secondary Current Input Range of Reading Burden Overload	: 5A or 1A : 5-5000A : <1.0VA : 5A CT = 6A RMS Continuous 1A CT = 1.2A RMS Continuous
		Pov	wer Supply	Self Powered from mains. Wide operating voltage SMPS : 80VAC - 480VAC, 45-65Hz	
OUTPUT		Rel	ay	Switching Voltage Switching Power Expected Mechanical Life Expected Electrical Life	: Max. 250 VAC : Max. 1000W : >10 X 10 ⁶ switching operations : > 4 X 10 ⁶ switching operations @(Load=200VA, Cosφ=0.5)
MEASUREMENT	True RMS Basic Parameters		ltage llts L-N: VRN, VYN, VBN)	Accuracy	: 0.5% of Reading
			rrent nps IR, IY, IB)	CT Ratio Accuracy	: Site Selectable : 0.25% of Reading
		Ca	pacitor Current	CT Ratio Accuracy	: Site Selectable : 1.0% of Reading
Σ		Line Frequency		45 to 65 Hz, Accuracy : 0.3% of Reading	
	Power	Active Power (P)		Accuracy: 1.0% of Reading (For IPFI>0.9)	
		Reactive Power (Q)		Accuracy: 1.5% of Reading (Between 0.5 Lag to 0.8 Lead)	
		Apparent Power (S)		Accuracy: 1.0% of Reading	
		Power Factor		Accuracy: 1.0% of Reading (IPFI≥0.5) Range of Reading: 0.05 to 1.00 Lag/Lead	
	Energy	Tota	al Active Energy (KWh)	Accuracy: 1.0s as per IS13779 Range of Reading: 0 to 99999999.9	
		Total Apparent Energy (KVAh)		Accuracy: 1.0% of Reading Range of Reading: 0 to 9999999.9	
		Total Reactive Energy (KVARh) (Lag & Lead)		Accuracy: 1.5% of Reading Range of Reading: 0 to 9999999.9	
	Power Quality	upto 15 th ODD Harmonics with THD for all Voltage			
		upt	to 15 th ODD Harmonics with TH	ID for all Current	
	Misc.		Cap. Bank KVAR		
0110	WISCELLANDOS	Dimensions	Bezel	144 x 144 mm	
			Panel Cutout	138 X 138 mm	
Z		Dim	Depth of installation	55 mm	
	j	Operating temp		10°C to 50°C	
200)	Weight		0.82 Kgs (Approx.)	
Σ		Min. Operating Current		1% or 5% of CT primary for FIFO/SFIFO mode	

TRINITY -



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