APPLICATION GUIDE FOR THYRISTOR UNIT SELECTION

	LOAD TYPE	MODEL	CURRENT RANGE	N. OF UNITS	PHASE CTRL			SUGGE FOR Y	STED I	FIRING MODE	OTHER FEATURES				SIZ		
						ZC	нс	SC	BF	BF Simplified	S+BF	DT	PA	CL	Control	v	
	Normal resistance infrared medium and long waveform	Revo SSR	It depends on heat sink	1	1	•											
		Revo S 1PH	30-800A	1	1	•				•						V	
		Custom 1PH	300-2100A	1	1	•				•						v	
	Quartz lamp infrared short wa- veform	Revo C 1PH	35-800A	1	1		•	•					•		v ²		
	Molibdenum, Tungstenum, Superkanthal, Platinum,	Revo C 1PH	35-800A	1	1								•	•	l ²	v	
	Silicon carbide elements	Revo S 1PH	30-800A	1	1				•						V		
		Revo C 1PH	35-800A	1	1								•		to Vxl	V	
	Transformers coupled with normal resistance	Revo C 1PH	35-800A	1	1							•			Vxl	V	
	Transformers coupled with cold resistances (Kanthal® super)	Revo C 1PH	35-800A	1	1								•	•	l ²	V	
	Normal Resistance	Revo S 2PH	30-800A	1	2	•										V	
		Revo C 2PH Multidrive 2PH	30-800A 35-2100	1	2				•						Vxl	v	
	Normal Resistance	Revo S 3PH	30-500A	1	3	•				•							
		Revo C 3PH	30-800A	1	3				٠						VxI	V 1.73	
		Custom 3PH	300-2100A	1	3	•				•							
	Silicon carbide elements	Revo C 3PH Multidrive 3PH	60-800A 35-2100A	1	3								•		V	-	
		Revo C 3PH	30-800A	1	3				•						Vxl		
	Molibdenum, Tungstenum, Kantal® Super, Platinum, Quartz lamp infrared short waveform	Revo C 3PH	60-800A	1	3								٠	•	ا ²	v	
		Multidrive 3PH	35-2100A	1	3								•	٠	²		
	Three phase transformer	Revo C 3PH	60-800A	1	3								•	•	ا ²	V	
		Multidrive 3PH	35-2100A	1	3								•	•	l ²	•	1
	Three phase normal load resistan- ce with open delta connection	Revo S 3PH	30-500A	1	3	•				•							
		Revo C 1PH	35-800A	3	3								•	•	l ²	V	
		Custom 3PH	300-2100A	1	3	•				•							
	Cold resistance	Revo C 1PH	35-800A	3	3								•	•	l ²	V	

SIZING		NOTE							
	I								
	P V	For general resistance applications with low variations in temperature and age. For low inertia loads use Single Cycle (SC) or Phase Angle (PA). For Infrared Short it's also available Half Cycle that is a very Fast Firing							
	<u> </u>	These resistances change with temperature but have low variations with age. Starting current with cold elements can be 16 times nomi- nal current (superkanthal). Infrared lamp short waveform can reach 8 time nominal current.							
	P V	These resistances change value with temperature and age and value at the end of element life is 4 times the initial value. Constant power regulation is necessary with V to VxI Transfer.							
	P Vcosø	Transformers and inductors have inrush current on start up. Phase Angle plus Soft Start and current limit are required. To switch the transformer ON-OFF, use DT firing that will automatically switch ON-OFF when current value is at zero.							
	P Vcosø	Use Phase Angle + Current Limit							
	P 1.73V	Revo S - Multidrive - Revo C 2PH are suitable to control resistive							
	P 1.73V	toads with delta or star connection without neutral.							
	P 173V	Three phase load with star plus neutral connection must be control- led on the three phases.							
	P	On three phase silicon carbide elements VxI feedback is suggested to have a constant power control. This is necessary to compensate resistance change with temperature and age. Resistance value at the end of element life is 4 times the original value. With Revo C use BF firing and Power Limit.							
	1.73V	These resistances change with temperature but have low variations with age. Start up current with cold elements can be many times the nominal current value. In this caseit is necessary to use Phase Angle + Current Limit.							
	P 1.73Vcosø	Three phase Multidrive and Revo C are specially designed to drive three phase transformers coupled on secondary with normal or special resistive loads.							
	$\frac{P}{3V}$	Open delta can be driven by three phase unit.							
	<u>P</u> 3V								