

Southern States VM-1 & VM-1SE APPLICATION GUIDE

VM-1 MOTOR OPERATOR & VM-1SE STORED ENERGY MOTOR OPERATION SELECTION CHART

	600 A	1200 A	1600 A	2000 A	3000 A	4000 A & Above
15.5 kV	VM-1-204 or VM-1SE-204					Consult Factory
27 kV						
38 kV						
48.3 kV						
72.5 kV						
123 kV						
145 kV						
170 kV						
245 kV	VM-1-208 or VM-1SE-208					
362 kV	VM-1-216 or VM-1SE-216 *					
≥ 550 kV	(see below) **					

* A VM-1-208 or VM-1SE-208 may be selected for center side break, double end break, and double end break “V” switches.

** A VM-1-204 or VM-1SE-204 multi-revolution motor operator is furnished on switches equipped with torsional gear box drive. Switches equipped with torsional crank arm drive and switches which are independent pole operated via an electrically synchronized motor operator per phase use the VM-1-216 or VM-1SE-216 motor operator.

Note: The LLS-1-2000 interrupters, the LLS-II-2000 interrupters, and the LLS-II-3000 interrupters do not require specially selected VM-1 or VM-1SE units. The standard VM-1 or VM-1SE show in the chart above for a given kV class and amperage rating can be used on switches equipped with the LLS-I or LLS-II.

VM-1 MOTOR DATA													
		VM-1-204	VM-1-208, 216	VM-1-204	VM-1-208, 216	VM-1-204	VM-1-208, 216	VM-1-204	VM-1-208, 216	VM-1-204	VM-1-208, 216	VM-1-204	VM-1-208, 216
		Single Phase											
VOLTAGE	RATED	24 VDC		48 VDC		125 VDC		250 VDC		120 VAC		240 VAC	
	MINIMUM	20 VDC		36 VDC		90 VDC		180 VDC		104 VAC		204 VAC	
	MAXIMUM	28 VDC		56 VDC		140 VDC		280 VDC		127 VAC		254 VAC	
CURRENT (A)	INRUSH (LOCK ROTOR)	150	88	75	49	28	17	26	10	108	56	54	25
	RUN AT RATED TORQUE	113	55	54	31	21	11	13	4	18	10	9	25
	RUN AT TYPICAL TORQUE	68	33	32	19	13	7	8	2	11	6	5	15
	COIL BURDEN CONTROLLERS (A)	0.3		0.15		0.059		0.029		0.062		0.031	
	BRAKE COIL (A)	8.64		4.35		1.8		0.939		1.42		0.74	