

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

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

	<b>600 A</b>	<b>1200 A</b>	<b>1600 A</b>	<b>2000 A</b>	<b>3000 A</b>	<b>4000 A &amp; above</b>
<b>15.5 kV</b>	VM-1-204 or VM-1SE-204					
<b>27 kV</b>						
<b>38 kV</b>						
<b>48.3 kV</b>						
<b>72.5 kV</b>						
<b>123 kV</b>						
<b>145 kV</b>						
<b>170 kV</b>						
<b>245 kV</b>	VM-1-208 or VM-1SE-208					
<b>362 kV</b>	VM-1-216 or VM-1SE-216 *					
<b>≥ 550 kV</b>	(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-1-208, 216		VM-1-204		VM-1-208, 216		VM-1-204		VM-1-208, 216		VM-1-204	
VOLTAGE	RATED	24 VDC		48 VDC		125 VDC		250 VDC		115 VAC		230 VAC	
	MINIMUM	18 VDC		36 VDC		90 VDC		180 VDC		90 VAC		190 VAC	
	MAXIMUM	26 VDC		56 VDC		140 VDC		260 VDC		140 VAC		250 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	
BRADE COIL (A)		8.64		4.35		1.8		0.939		1.42		0.74	