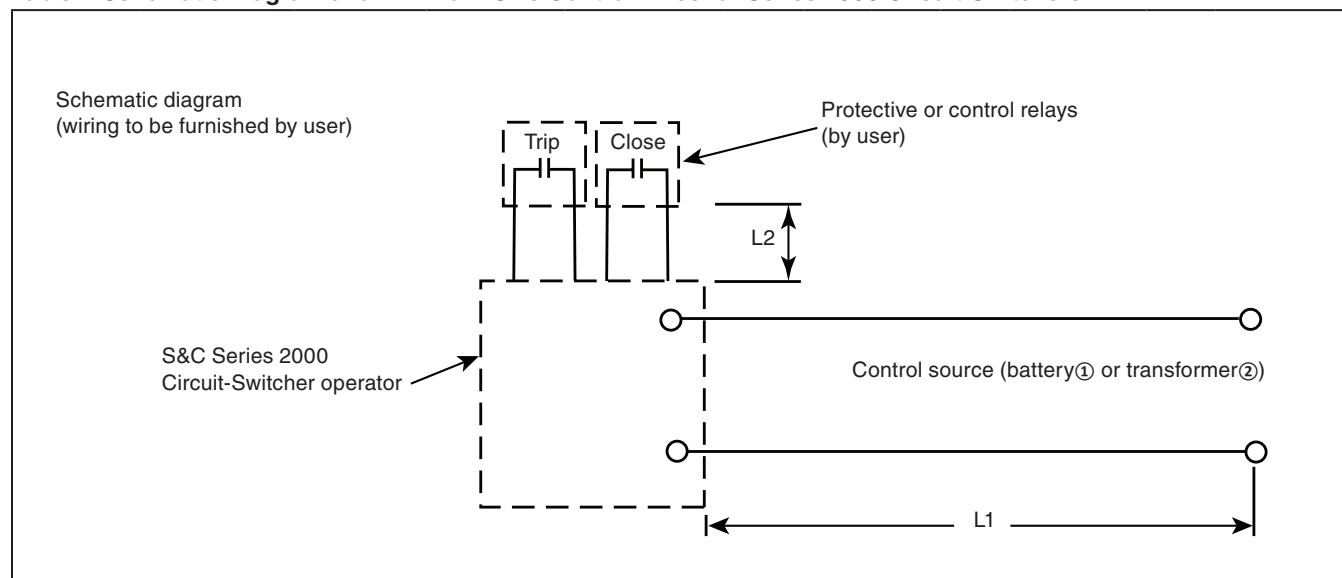


Table 1. Schematic Diagram and Minimum-Size Control Wires for Series 2000 Circuit-Switchers



Operator Control Voltage	Circuit-Switcher Catalog Number Suffix	Motor Inrush Current, Amperes	Motor Running Current, Amperes	Trip Coil and Closing Coil Current, Amperes	Minimum Size of Control Wire ^③ for Lines L1 and L2 Respectively, A.W.G.								
					Line	Distance, Feet (m)							
						100 (30)	200 (61)	300 (91)	400 (122)	500 (152)	1000 (305)	2000 (610)	3000 (914)
48 Vdc	-A	73	40	22	L1	6	4	2	1	1/0	4/0		
					L2	12	10	8	6	6	2		
125 Vdc	-B	28	15	8.5	L1	12	10	8	6	6	3	1/0	3/0
					L2	12	12	12	12	10	8	6	4
115 V 60 Hz	-D	28 RMS	15 RMS	6 RMS	L1	12	10	8	6	6	3	1/0	3/0
					L2	12	12	12	12	10	8	6	4

① Recommended minimum one-minute discharge rate of battery to 1.75 Volts per cell: 75 amperes.

② Recommended voltage regulation of ac control source: 5% or better at 15 amperes.

③ Where long distances and large wire sizes are encountered, comparative cost of relocating the battery and protective relay closer to the operator should be considered.

Table 2: Minimum and Maximum Control Source Voltage^①

Operator Control Voltage	Circuit-Switcher Catalog Number Suffix	Maximum Control Source Voltage	Minimum Control Source Voltage	Minimum Tripping ^② Source Voltage
48 Vdc	-A	56 Vdc	36 Vdc	28 Vdc
125 Vdc	-B	140 Vdc	90 Vdc	70 Vdc

① As measured at the Series 2000 operator's terminal blocks.

② Only for the trip coil(s), and does not include motor charging and closing circuits.

