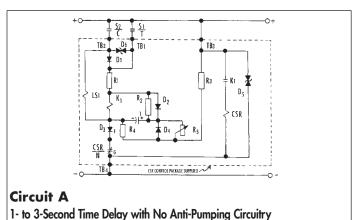


CONTROL SWITCH RELAYS

Circuit A

1- to 3-Second Time Delay With No Anti-Pumping Circuitry - Not Recommended Where SCADA Timing Sequence is Greater Than 3 Seconds.

Circuit A has a factory adjustable time delay that holds the CSR in the commanded position for 1 to 3 sec. The command contact closure time should be greater than 100 msec and less than the time delay setting (to avoid pumping). This circuit is not recommended for applications where the SCADA timing sequence is greater than three seconds as it will cause pumping.



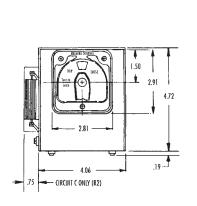
Contact Chart

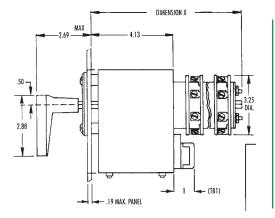
DECKS	CONTACTS	POS.			
		TRIP	NAT	NAC	CLOSE
1	120-1-013				X
	16 0—1—0 17				X
2	210-1-028	\times			
	24 0—1—0 25	\times			
3	310-1-032		\times	X	
	35 0—1—1 —036		\mathbf{X}	\mathbf{X}	
4	420-1-043			X	X
	46 O—I—I—O 47			X	X
5	51 0—1—1 —052	X	X		
	55 0—1—0 56	X	X		

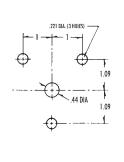
TRIP CLOSE

BREAKER CONTROL

nat = normal after TRIP nac = normal after CLOSE



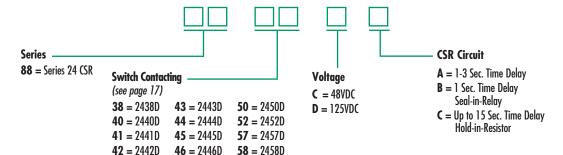




With No of Standard Decks Config. **Slip Contacts** 6.5 7.9 7.1 8.6 3 7.9 9.0 8.6 9.7 5 9.0 10.5 6 9.7 11.0

DEPTH BEHIND PANEL (DIM X)

Series 24 CSR Ordering Information



The circuit breaker control switch relays include an engraved nameplate, mechanical target, and pistol-grip handle. Circuits 50, 52 and 58 also have a Turn-To-Latch position. Also included are the control circuits previously explained.

CSR Control Switch Relays have the same flexibility of design as the Series 24 line of Instrument and Control Switches and are available with all the different contact configurations expected from this type of switch. Refer to switch section for details.