

### CD TIME DELAY RELAYS

Input Voltage	Time Range	Type of Adjustment	Wiring Dia.	CD Part Number
<b>Delay On Operate Models</b>				
24VAC	1-10 S	Knob	1	CDB-38-30001**
120VAC	0.1-1 S	Knob	1	CDB-38-70001**
	0.1-5 S			CDB-38-70002**
	0.1-10 S			CDB-38-70003**
	0.3-30 S			CDB-38-70006**
	0.6-60 S			CDB-38-70004**
1.8-180 S	CDB-38-70005**			
120VAC	1 S	Fixed	1	CDA-38-70012**
120VAC	0.1-5 S	Resistor	2	CDF-38-70002**
				CDF-38-70003**
24VDC	0.1-10 S	Knob	1	CDD-38-30003**
				CDD-38-30004**
				CDD-38-30005**
				CDD-38-30006**
48VDC	0.6-60 S	Knob	1	CDD-38-40002**
<b>Delay On Release Models</b>				
120VAC	0.1-1 S	Knob	3	CDB-38-70016**
				CDB-38-70019**
				CDB-38-70014**
				CDB-38-70022**
				CDB-38-70012**
1.8-180 S	CDB-38-70015**			
120VAC	1 S	Fixed	3	CDA-38-70025**
24VDC	0.1-10 S	Knob	3	CDD-38-30014**
				CDD-38-30012**
				CDD-38-30008**

CDF EXTERNAL RESISTOR VALUES			
Factory Set Time Delay (No Resistor)	Approx. Resistance to Reduce Delay 50%	Short Circuit Time Delay	
5 S	200K Ohms	0.1 S	
10 S	400K Ohms	0.1 S	

**WIRING DIAGRAMS (BOTTOM VIEWS)**  
Pins numbered clockwise from keyway

ⓐ Note input polarity for DC operation. For most reliable operation on AC, connect high side to "+."

ⓑ Important: If control voltage is present when supply voltage is applied, the relay will immediately energize.

### CK TIME DELAY RELAYS (Cont'd)

**CKF EXTERNAL RESISTOR VALUES**  
Short circuit provides minimum (0.1 S) time delay. 200K resistor (approx.) provides maximum (10 S) time delay.

**WIRING DIAGRAMS (BOTTOM VIEWS)**  
Pins numbered clockwise from keyway

ⓐ Note input polarity for DC operation. For most reliable operation on AC, connect high side to "+."

ⓑ Important: If control switch is closed when power is applied, relay will immediately energize. A 50 millisecond minimum switch closure is required. A dry circuit switch is recommended for proper operation. A "dry circuit" switch is one rated to reliably switch currents of less than 50mA.

### CH TIME DELAY RELAYS

Input Voltage	Time Range	Type of Adjustment	Wiring Dia.	CH Part Number
<b>Delay On Operate Models</b>				
24VAC	1-10 S	Knob	1	CHB-38-30001**
	1-180 S			CHB-38-30003**
120VAC	1-10 S	Knob	1	CHB-38-70001**
	1-60 S			CHB-38-70002**
	1-180 S			CHB-38-70003**
120VAC	10 S	Fixed	1	CHA-38-70001**
240VAC	1-10 S	Knob	1	CHB-38-80001**
24VDC	1-10 S	Knob	1	CHD-38-30001**
	1-180 S			CHD-38-30003**
<b>Delay On Release Models</b>				
24VAC	1-10 S	Knob	3	CHB-38-30011**
120VAC	1-10 S	Knob	3	CHB-38-70011**
				CHB-38-70012**
				CHB-38-70013**
24VDC	1-180 S	Knob	3	CHD-38-30013**
<b>Interval On Models</b>				
120VAC	1-10 S	Knob	1	CHB-38-70021**
120VAC	1-60 S	Knob	1	CHB-38-70022**
				CHB-38-70023**
24VDC	1-10 S	Knob	1	CHD-38-30021**

**WIRING DIAGRAMS (BOTTOM VIEWS)**  
Pins numbered clockwise from keyway

ⓐ Note input polarity for DC operation. For most reliable operation on AC, connect high side to "+."

ⓑ Important: If control switch is closed when power is applied, relay will immediately energize. A 50 millisecond minimum switch closure is required. A dry circuit switch is recommended for proper operation. A "dry circuit" switch is one rated to reliably switch currents of less than 50mA.

### CH TIME DELAY RELAYS (Cont'd)

ⓐ Note input polarity for DC operation. For most reliable operation on AC, connect high side to "+."

ⓑ Important: A 50 millisecond minimum switch closure is required. A dry circuit switch is recommended for proper operation. A "dry circuit" switch is one rated to reliably switch currents of less than 50mA.

### CB TIME DELAY RELAYS

Input Voltage	Time Range	Type of Adjustment	Wiring Dia.	CB Part Number
<b>Delay On Operate Models</b>				
24VAC	0.1-10 S	Knob	1	CB-1041B-30**
	1.8-180 S			CB-1042B-30**
120VAC	0.1-1 S	Knob	1	CB-1001B-70**
				CB-1002B-70**
				CB-1003B-70**
				CB-1004B-70**
				CB-1005B-70**
12VDC	0.1-10 S	Knob	1	CB-1047D-20**
				CB-1026D-30**
24VDC	0.1-1 S	Knob	1	CB-1028D-30**
				CB-1029D-30**
<b>Delay On Release Models</b>				
24VAC	0.1-10 S	Knob	3	CB-1045B-38**
				CB-1046B-38**
120VAC	0.1-10 S	Knob	3	CB-1021B-78**
				CB-1022B-78**
				CB-1023B-78**
				CB-1024B-78**
24VDC	0.1-10 S	Knob	3	CB-1038D-38**
				CB-1039D-38**
<b>Interval On Models</b>				
24VAC	0.1-10 S	Knob	1	CB-1043B-39**
120VAC	0.1-5 S	Knob	1	CB-1011B-79**
				CB-1014B-79**
				CB-1016B-79**
				CB-1018B-79**
24VDC	0.1-5 S	Knob	1	CB-1034D-39**
				CB-1036D-39**

**WIRING DIAGRAMS (BOTTOM VIEWS)**  
Pins numbered clockwise from keyway

ⓐ Note input polarity for DC operation. For most reliable operation on AC, connect high side to "+."

ⓑ Important: If control switch is closed when power is applied, relay will immediately energize. A 50 millisecond minimum switch closure is required. A dry circuit switch is recommended for proper operation. A "dry circuit" switch is one rated to reliably switch currents of less than 50mA.

\* Denotes UL  
\*\* Denotes CSA

CH Data Continues in the Next Column.