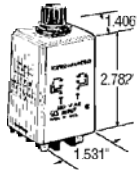


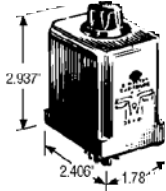
**CUB-51 Time-Delay Relay**



Knob-adjustable delay-on-operate time delay relays. DPDT contacts 10 A at 28 VDC resist., or 120 V, 60 Hz AC, 80% power factor. **Tolerance:** Adjust., -0, +20% of max. specified at high end; min. specified or less at low end. **Release:** 150 msec. **Recycle:** 150 msec. **Transient Protection:** Yes. Polarity protected. Operate room temperature. Timing intervals adjust. over timing ranges 1 to 120 secs. 1.53 x 1.406 x 2.78" (3.87 x 3.57 x 7.07 mm) (including knob). 120 VAC, 3 1/2 oz.

Stock No.	Mfr.'s Type	EACH		
		1-24	25-49	50-99
886-0132	CUB-51-70120	75.14	71.17	66.42

**CB Series Relays**



CB Series relays are economy, octal-type plug-in models with CMOS integrated circuits. Available in delay-on-operate, delay-on-release or interval on timing modes, all units are knob-adjustable. Molded enclosure houses the timing circuit and an internal relay. All models are DPDT, except type CB-1022B78 which is SPDT. Contacts rated 10 amps at 240 VAC, 6Hz. Power requirements typically less than 3 VA for AC types; 3 watts for DC types. **Operating Temperature Range:** -10°C to +55°C. Polarity protection. UL recognized, CSA certified.

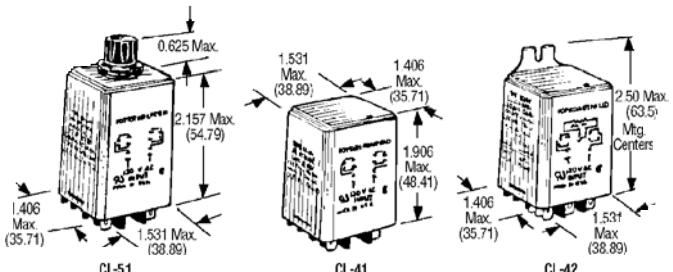
**Delay-On-Operate Relays**

Stock No.	Mfr.'s Type	Voltage	Delay Seconds	Pins	EACH		
					1-24	25-49	50-99
886-0107	CB-1042-B-30	24 AC	1.8-180	8	68.46	64.84	60.52
886-0108	CB-1001-B-70	120 AC	0.1-1	8	68.46	64.84	60.52
886-0109	CB-1002-B-70	120 AC	0.1-5	8	65.20	61.75	57.64
886-0110	CB-1003-B-70	120 AC	0.1-10	8	68.46	64.84	60.52
886-0005	CB-1004-B-70	120 AC	0.6-60	8	60.18	57.00	53.20
886-0111	CB-1005-B-70	120 AC	1.8-180	8	68.46	64.84	60.52
886-0112	CB-1006-B-70	120 AC	1.0-10	8	65.20	61.75	57.64
886-0113	CB-1007-B-70	120 AC	10.0-100	8	65.20	61.75	57.64
886-0104	CB-1047-D-20	12 DC	0.1-10	8	65.20	63.34	59.12
886-0115	CB-1028-D-30	24 DC	0.1-10	8	65.20	61.75	57.64

**Delay-On-Release Relays**

Stock No.	Mfr.'s Type	Voltage	Delay Seconds	Pins	EACH		
					1-24	25-49	50-99
886-0119	CB-1046-B-38	24 AC	1.8-180	11	65.20	61.75	57.64
886-0126	CB-1021-B-78	120 AC	0.1-10	11	68.46	64.84	60.52
886-0121	CB-1022-B-78	120 AC	0.1-10	8	68.46	64.84	60.52
886-0122	CB-1023-B-78	120 AC	0.6-60	11	65.20	61.75	57.64
886-0123	CB-1024-B-78	120 AC	1.8-180	11	68.46	64.84	60.52
886-0124	CB-1038-D-38	24 DC	0.1-10	11	65.20	61.75	57.64
886-0125	CB-1039-D-38	24 DC	1.8-180	11	65.20	61.75	57.64

**CL Series Time Delay Relays**

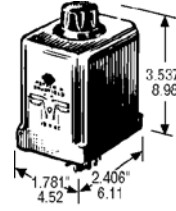


Delay on operate. Similar to the CU Series except they don't have timing cycle interrupt transfer and will time to 0.1 second. DPDT rated at 10 amps. CL relays are enclosed in yellow polycarbonate dust covers. Plug-in/quick connect terminals. Uses KU Series sockets. Available in fixed, resistor adjustable and knob adjustable. **Weight:** Approx. 3.5 oz. External resistor not included.

Stock No.	Mfr.'s Type	Time Delay (Sec.)	Input Voltage	EACH		
				1-24	25-49	50-99
886-0021	CLB-51-70010†	0.1-10	120 VAC	83.69	79.00	73.35
886-0022	CLB-51-70030†	0.3-30	120 VAC	83.90	79.00	73.35
886-0023	CLB-51-70120†	1.2-120	120 VAC	79.90	75.23	69.86
886-0024	CLF-41-70010*	0.1-10	120 VAC	75.33	70.93	65.86
886-0026	CLF-42-70010*	0.1-10	120 VAC	75.33	70.93	65.86

\*External 1/4 watt minimum. †Knob adjustable.

**Series CH and CD Time-Delay Devices and Relays**



Solid-state devices. reset within milli-seconds. Adjustable over entire time range. Plastic enclosures. **Series CH. Temperature:** -10°C to +55°C. **Tolerance:** -0, +20% of max. specified @ high end; min. specified or less @ low end. **Reset:** 125 msec. **Repeatability:** ±2%. **Series CD. Temperature:** -40°C to +55°C. **Tolerance:** ±5%. **Reset:** 60 msec. **Repeatability:** ±1%. CHB/CDB38 time delays have internal DPDT 10 amp relay. CHB38-70011 and CHB38-70013 provide delay on release, others delay on operate. **Weight:** CD38 — 9 oz. (255 gm); CH38 — 6 oz. (168 gm).

**Delay On Operate (Use 8-Pin Octal Sockets)**

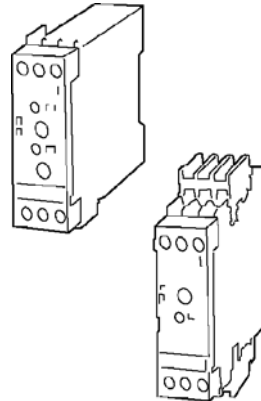
Stock No.	Mfr.'s Type	Input Volts	Delay Sec.	EACH		
				1-24	25-49	50-99
886-0090	CHB-38-70001	120 AC	1.0-10	78.37	74.23	69.28
886-0091	CHB-38-70003	120 AC	1.0-180	90.05	85.29	79.60
886-0085	CHD-38-30001	24 DC	1.0-10	90.05	85.29	79.60
886-0086	CHD-38-30003	24 DC	1.0-180	94.55	89.56	83.59
886-0053	CDB-38-70003	120 AC	0.1-10	150.83	142.86	133.33
886-0054	CDB-38-70004	120 AC	0.6-60	143.45	136.05	126.98
886-0055	CDB-38-70005	120 AC	1.8-180	143.65	136.05	126.98

**Delay On Release (Use 11-Pin Sockets)**

Stock No.	Mfr.'s Type	Input Volts	Delay Sec.	EACH		
				1-24	25-49	50-99
886-0082	CHB-38-70011	120 AC	1.0-10	94.55	89.56	83.59
886-0083	CHB-38-70013	120 AC	1.0-180	82.66	78.29	73.07

**3RP15 Series Time Delay Relay**

- Available as SPDT or DPDT
- 15 Time Setting Ranges
- 0.05 Second-100 Hour Programmable Timing Range
- Universal 24-240 VAC/VDC or Fixed Input Types
- 3 A Switching Current Rating
- Fits 35 mm DIN Track
- Single Function, Delay-On Available
- Screw Termination Meeting IP20 Protection Category
- UL, CSA, VDE, CE
- LED Indicators for Power Applied and Contacts Closed



This programmable time delay relay is a multi-function device with universal and fixed input voltages. Available in a slim, 22.5 mm package that mounts directly to a 35 mm DIN track. This product is designed with global applications in mind with approvals from UL, CSA, VDE and CE. The 3RP15 replaces the CND series from Siemens strengthening the time delay product offerings, complementing the CNT and CNS products. **Rating:** 3 A @ 250 VAC. **Material:** Silver tin oxide. **Switching Frequency:** 2,500 operations/hour. **Electrical Life:** 200,000 operations min. at rated load. **Temperature Range:** -25°C to +60°C.

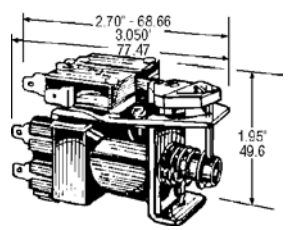
**Multifunction**

Stock No.	Mfr.'s Type	Input Voltage		Contact Arrangement	Input Type	EACH
		DC	AC			
886-8702	3RP1505-1A030	24	24, 100-127	SPDT	Fixed	101.71
886-8700	3RP1505-1A030	24	24, 200-240	SPDT	Fixed	63.00
886-8704	3RP1505-1B030	24	24, 100-127	DPDT	Fixed	71.00
886-8706	3RP1505-1B030	24-240	24-240	DPDT	Universal	71.00

**Delay On**

Stock No.	Mfr.'s Type	Input Voltage	Delay Sec.	Contact Arrangement	Input Type	EACH
886-8708	3RP1525-1A030	24	24, 200-240	SPDT	Fixed	43.00
886-8712	3RP1525-1B030	24	24, 100-127	DPDT	Fixed	47.00
886-8714	3RP1525-1B030	24	24, 200-240	DPDT	Fixed	47.00

**Impulse Relays**



The S89R is a bistable, impulse relay that can affect a savings of power in applications where the load is on for long periods of time. Contact rating is 15 amps, 1/2 HP, 125/250 VAC amps, 125 VAC tungsten filament lamp load; 1/2 amp, 125 VDC; and 1/4 amp, 250 VDC. Life expectancy at full load is 50,000 operations minimum; 100,000 operations, mechanical. Operating temperature range is -10°C to +60°C. Mounting is by two #8-32 tapped holes on 1.84" (46.83 mm) centers. "ACI" indicates 0.187" (4.75 mm) quick connects. S90 relay is identical to the S89 Series except that terminals are 0.250" (6.35 mm) quick connect and contacts are rated at 20 amps. Coil for both series are rated for continuous duty operation.

Stock No.	Mfr.'s Type	Coil Voltage	Contacts	EACH		
				1-24	25-49	50-99
886-1278	S89R5ABD1-24	24 VAC	SPDT	24.49	23.07	21.42
886-1279	S89R5ABD1-120	120 VAC	SPDT	23.11	21.77	20.21
886-1280	S89R5DBD1-12	12 VDC	SPDT	23.21	21.84	20.28
886-1281	S89R11AAC1-24	24 VAC	DPDT	29.55	27.82	25.84
886-1282	S89R11AAC1-120	120 VAC	DPDT	29.55	27.82	25.84
886-1283	S89R11ABD1-24	24 VAC	DPDT	27.88	26.25	24.38
886-1284	S89R11ABD1-120	120 VAC	DPDT	29.55	23.64	21.96
886-1285	S89R11DAC1-12	12 VDC	DPDT	28.13	26.49	24.59
886-1286	S89R11DAC1-24	24 VDC	DPDT	31.24	25.00	23.21
886-1287	S89R11DBD1-12	12 VDC	DPDT	28.14	24.40	22.52
886-1288	S89R11DBD1-24	24 VDC	DPDT	26.55	23.02	21.25
886-1289	S90R5ABD1-120	120 VAC	SPDT	26.34	24.81	23.04
886-1277	S90R11ABD1-24	24 VAC	DPDT	31.92	30.05	27.91
886-1276	S90R11ABD1-120	120 VAC	DPDT	31.92	30.05	27.91