

CIRCUIT BREAKERS

TYCO CIRCUIT BREAKERS

These bi-metallic single pole breakers weigh less than 2oz. and especially suitable for homebuilt aircraft. Used as original equipment in Beech, Cessna and Piper aircraft. Max. operating voltages: 32 VDC & 250 VAC (to 400 Hz).

W23 SERIES



White band around body of reset button becomes visible if breaker trips. Has heater wire for fast tripping. 8-32 screw terminals.

W31 SERIES



These are combination single pole switches and circuit breakers. Has a plain steel toggle w/ rating inscribed on tip. 8-32 screw terminals.

W58 SERIES



Recessed reset button has red band around it for visible trip indication. 6-32 screw terminals.

P&B P/N	AMP Rating	Aircraft Application			Prices Ea.
		Beech	Cessna	Piper	
W23X1A1G1	1			111-201-105	\$38.50
W23X1A1G2	2			111-202-105	\$43.99
W23X1A1G3	3			111-203-105	\$45.50
W23X1A1G4	4			111-204-105	\$50.85
W23X1A1G5	5	CB-2305A	S-1232-5	454656	\$26.50
W23X1A1G7.5	7.5	CB-2307A			\$27.65
W23X1A1G10	10	CB-2310A		454657	\$25.50
W23X1A1G15	15	CB-2315A		454658	\$25.50
W23X1A1G20	20	CB-2320A		454659	\$25.50
W23X1A1G25	25	CB-2325A		454660	\$25.50
W23X1A1G30	30	CB-2330A		454661	\$26.99
W23X1A1G35	35	CB-2335A		454663	\$25.50
W23X1A1G40	40	CB-2340A		454665	\$28.50
W23X1A1G50	50	CB-2350A		454662	\$24.95
W31X2M1G5	5				\$31.85
W31X2M1G10	10				\$32.70
W31X2M1G15	15				\$31.75
W31X2M1G20	20				\$37.50
W31X2M1G25	25				\$28.90
W31X2M1G30	30				\$31.80
W31X2M1G35	35				\$29.95
W31X2M1G40	40				\$28.50
W31X2M1G50	50				\$28.50
W58XC4C12A1	1	431-201-101	S-1360-1A,-1L		\$9.50
W58XC4C12A2	2	431-202-101	S-1360-2A,-2L		\$9.50
W58XC4C12A3	3	431-203-101	S-1360-3A,-3L		\$9.50
W58XC4C12A4	4	431-204-101	S-1360-4A,-4L		\$13.85
W58XC4C12A5	5	435-205-101	S-1360-5,-5L	454668	\$7.60
W58XC4C12A7	7	435-207-101	S-1360-7,-7L		\$7.65
W58XC4C12A10	10	435-210-101	S-1360-10,-10L	454669	\$7.65
W58XC4C12A15	15	435-215-101	S-1360-15,-15L	454670	\$6.90
W58XC4C12A20	20	435-220-101	S-1360-20,-20L		\$7.50
W58XC4C12A30	30	435-230-101	S-1360-30,-30L		\$6.90

TYCO ROCKER TYPE CIRCUIT BREAKER



W33S2N1Q series breakers are 2 pole rocker actuated. Pole 1 is switch only, pole 2 is series trip overload sensing. These breakers are non-lighted with white rocker.

W33S4B1Q series breakers are also 2-pole rocker actuated. Pole 1 is switch only, pole 2 is series trip overload sensing. These breakers feature 20 amp max. switch & amber plastic rockers.

Item / Description	Amps	Part No.	Price
W33S4B1Q-5 - Amber 24VDC	5	11-01887	\$29.99
W33S4B1Q-10 - Amber 120VAC	10	11-01888	\$41.90
W33S4B1Q-15 - Amber 120VAC	15	11-01889	\$31.95
W33S4B1Q-20 - Amber 120VAC	20	11-01976	\$36.50
W33S1N1Q-5 - Black	5	11-01977	\$29.95
W33S1N1Q-10 - Black	10	11-01978	\$39.95
W33S1N1Q-15 - Black	15	11-01979	\$24.95
W33S1N1Q-20 - Black	20	11-01980	\$53.75
W33S2N1Q-5 - White	5	11-01981	\$43.70
W33S2N1Q-10 - White	10	11-01890	\$46.99
W33S2N1Q-20 - White	20	11-01983	\$42.75

FUSE HOLDERS



These fuseholders are non-indicating, plate mounted. The body is molded black phenolic. Knob grips fuse and pulls it from holder when knob is removed. Spring provides contact pressure on ends of fuse. For use with fuse size 1/4" x 1-1/4". Type HKP.

P/N 11-13400 \$1.98

Nylon Twist-Lock in-line fuseholder. Supplied with 8" loop of 14-gauge wire and 1 spring to accommodate AGC fuses. Simple "twist-lock" allows easy fuse removal & replacement P/N 11-04010 \$3.40

Bayonet knob in-line fuseholder. Supplied with 8" loop of 14-gauge wire and 1 spring to accommodate AGC fuses. Simple "twist-lock" allows easy fuse removal and replacement P/N 11-01359 \$5.90

KLIXON 7274-11.75 CIRCUIT BREAKER



Klixon 7274 series are small, lightweight, low amperage devices that are specifically designed to protect aircraft/aerospace cable and components in airborne vehicles and equipment. The commercial grade version of this circuit breaker is the Klixon 7277 series. The 7274 features a trip-free, indicating reset button and is available in standard ratings from 1/2 to 20 amps. They are available in standard ratings from 1/2 to 20 amps.

Description	Amps	Part No.	Price	Description	Amps	Part No.	Price
7274-11-1	1	11-08364	\$21.75	7274-11-5	5	11-08369	\$21.75
7274-11-2	2	11-08365	\$21.75	7274-11-7.5	7.5	11-08370	\$21.75
7274-11-2.5	2.5	11-08366	\$21.65	7274-11-10	10	11-08371	\$21.75
7274-11-3	3	11-08367	\$21.75	7274-11-15	15	11-08372	\$21.75
7274-11-4	4	11-08368	\$21.65	7274-11-20	20	11-08373	\$21.65

KLIXON CIRCUIT BREAKERS



Feature a bi-metallic snap-acting disc as the sensing element. Widely used in production and military aircraft. The most popular models are illustrated. Models PSM and PSM-N are available in the following ampere ratings: 2, 3, 5, 10, 15, 20, 25, 35. When ordering specify if neck-mounting style is wanted by placing "N" after ampere rating. Example: PSM-10N (P/N 11-04244) \$192.75 ea. For weatherproof circuit breakers in ratings from 50 to 150 amperes, order Model PDLM. Example: PDLM-50 (P/N 11-04241) ... \$174.75 ea.

60 AMP CIRCUIT BREAKERS FOR ALTERNATORS



These heavy duty circuit breakers are ideal for use with aircraft alternators and other applications using high amperage. 10-32 screw terminals. Size: 1-3/8" d x 1-3/8" h x 1/2" w. 60 Amp .P/N 11-02191 \$12.95

70 AMP CIRCUIT BREAKERS FOR ALTERNATORS



These heavy duty 70 AMP circuit breakers are ideal for use with aircraft alternators and other applications using high amperage. 10-32 screw terminals. 1 3/8" D x 1 3/8" H x 1/2" W P/N 11-05652 \$34.50

ELECTRONIC CIRCUIT BREAKERS



These circuit breakers have no mechanical parts, except for the reset switch. The power switching and control components are completely solid state. They have added benefit of overvoltage and undervoltage protection. Will turn off if the input voltage goes too high, protecting valuable avionics or other equipment. The circuit breakers operate differently than conventional ones in the following ways: If the circuit breaker 'trips', the switch will remain in the up or on position, but a red LED will illuminate indicating the condition. To reset the circuit breaker, the switch is set to off, then back to on. Removing power from the circuit breaker via a master switch and then restoring power will perform the same function. If a short or overcurrent condition exists at the output, the circuit breaker will continue to trip after a reset. The electronic circuit breaker is a 3-terminal device. In addition to the usual 2 terminals, a ground reference is required for the electronics to operate and as a reference for the overvoltage & undervoltage protection. The 14V circuit breakers will shutdown with an overvoltage of 16V & undervoltage of 10V. The 28V will shutdown with an overvoltage of 33V & undervoltage of 20V. Available in 14V & 28V versions, with the following current levels: 1A, 2A, 5A, 10A. Not FAA Approved. For experimental aircraft only.

Model No.	Amps	Volts	Part No.	Price
ECB-28-01	1	28	11-01156	\$76.50
ECB-28-02	2	28	11-01157	\$76.50
ECB-28-10	10	28	11-01159	\$76.50

FUSES



AGC-type fuses are glass-enclosed with a single fuse element. Fast acting to protect sensitive instruments and radios.

Fuse dimensions 1/4" dia. x 1-1/4" long.

Part No.	Ampere Rating	Price Ea.	Part No.	Ampere Rating	Price Ea.
11-03743	1	\$0.30	11-03745	15	\$0.25
11-03746	2	\$0.25	11-03747	20	\$0.48
11-03749	3	\$0.30	11-03748	25	\$0.28
11-03753	5	\$0.38	11-03750	30	\$0.48
11-03754	7	\$0.23	11-03751	35	\$0.48
11-03744	10	\$0.38			