

AIRPAX®

Snapak® Series Magnetic Circuit Protectors



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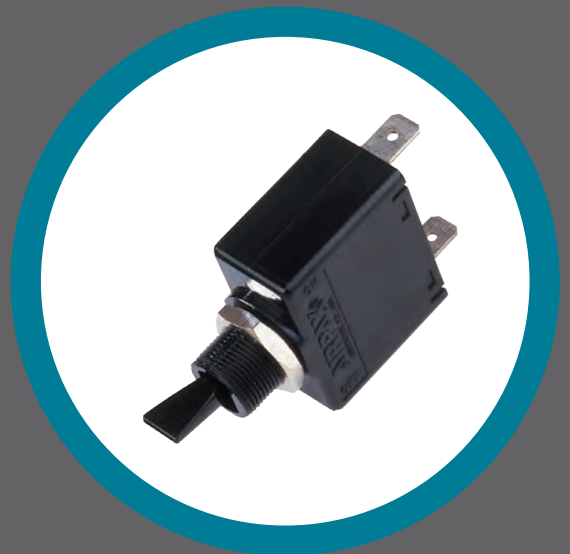
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AIRPAX® | T/R/PP/PR/CR/PP/CPR Series

Hydraulic Magnetic Circuit Protectors (SNAPAK®)

INTRODUCTION

The Airpax™ SNAPAK® series is a snap-acting hydraulic-magnetic circuit protector that combines power switching and accurate, reliable circuit protection in one aesthetically pleasing package. The SNAPAK® combines the functions of three separate components: power switch, fuse and fuse holder. To the OEM, this means that only one item has to be mounted instead of three. Less assembly is required, inventory is cut by two-thirds and greater panel density is obtainable with less clutter. In addition, the SNAPAK® can be operated at either DC or 50/60Hz, eliminating the need to specify, order and stock separate units. 400Hz units are also available.

To enhance front-panel aesthetics, SNAPAK® is offered with paddle and rocker handles in six attractive colors and push-pull and push-to-reset actuators. Also offered is a variety of optional mounting hardware. The push-pull version is supplied with a black button with a white indicating band.

Orientation of the button when marked with an amperage notation must be specified when using the fourth decision table. Push-to-reset is supplied with a contrasting color indicating shaft. In addition, SNAPAK® is offered in SPST and DPST configurations. The single pole satisfies most applications. The two-pole version is often used for extra safety in products that utilize high voltage or where current sensing and breaking of both sides of the line is required. Quick connect terminals are standard, UNC 8-32 or M4 screw terminals are available as additional termination options.

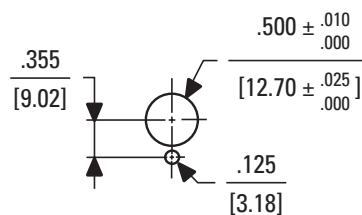
Since the SNAPAK® is snap-acting, it assures immediate opening and closing of the contacts. Its design also prevents operator “teasing” of the contacts and minimizes arcing. SNAPAK® circuit protectors are UL Recognized as supplementary protectors per UL STD. 1077, CSA Certified as supplementary protectors per CSA STD. C22.2 No. 235, VDE Approved as circuit breakers for equipment per STD. EN 60934, CCC Approved (customer must request product be manufactured in China) and CE Compliant. In addition, most versions are certified by UL to meet spacing requirements of IEC 950 for basic and functional insulation for front panel mounting.

Consult factory for details and exceptions. Typical applications include office appliances, electronic data processing, medical equipment, business machines, vending and amusement machines. Push-pull versions are particularly well suited for medical instrumentation, automotive production transfer lines and other applications where accidental turn off is unacceptable. For those applications which do not require circuit protection, SNAPAK® is offered in a power-switch-only configuration.

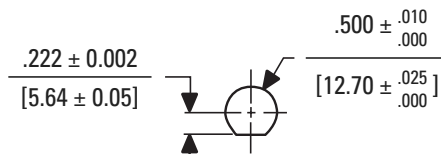
TOGGLE ACTUATORS

The SNAPAK® is available with paddle handles in six attractive colors. Engineered for safe, sure operation, the paddle handles may be specified in blue, white, red, green, yellow or black.

Mounting Details with Locking Ring



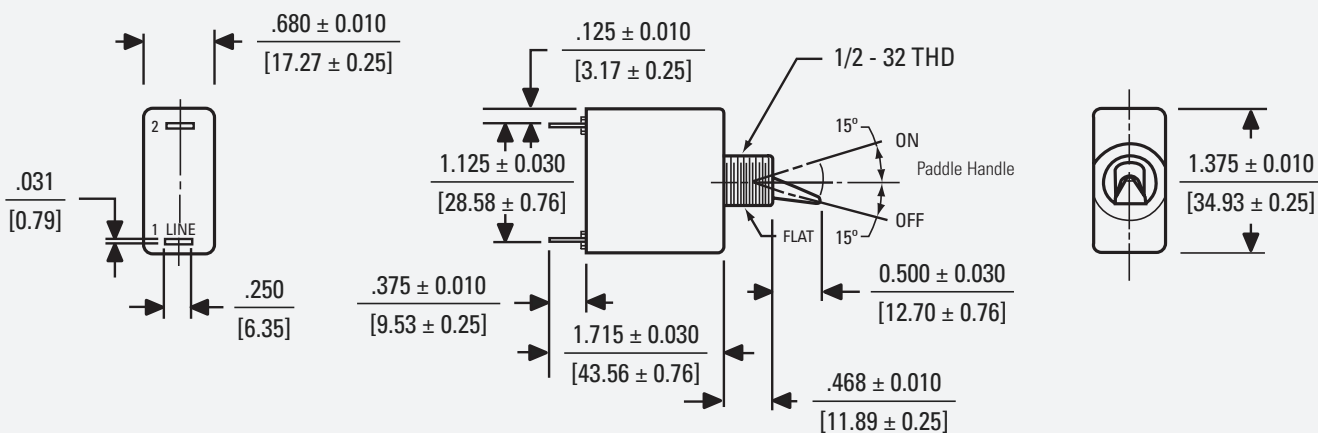
without Locking Ring



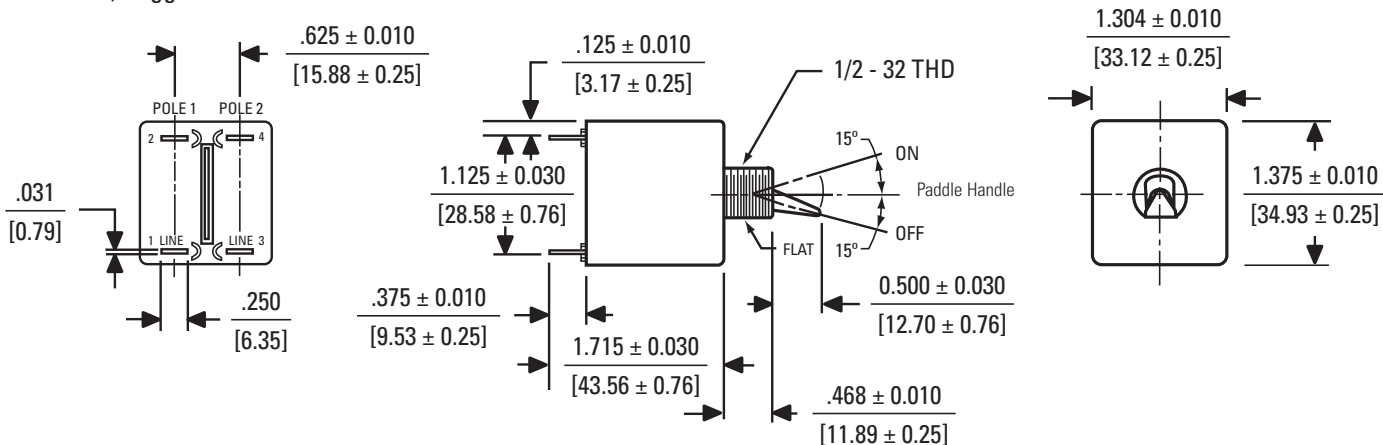
PANEL CUTOUT SHOWN ABOVE
MAY BE MADE WITH GREENLEE
RADIO CHASSIS PUNCH #733 x 1/2" DIA.

Note: Mounting Tolerance $\pm .005$ [.13] unless noted angles: $\pm 5^\circ$.
Dimensions in Brackets [] are millimeters.

Single Pole, Toggle



Two Pole, Toggle

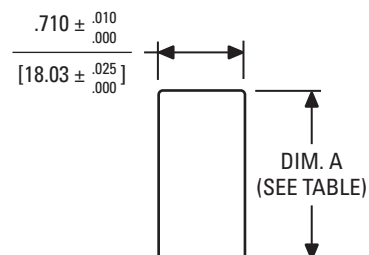


ROCKER HANDLES WITH ILLUMINATION

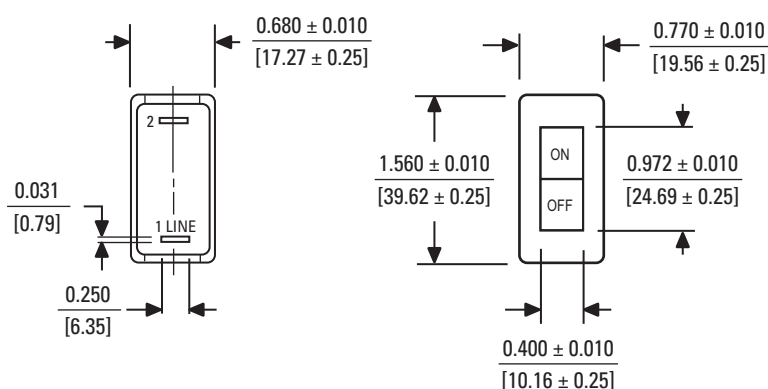
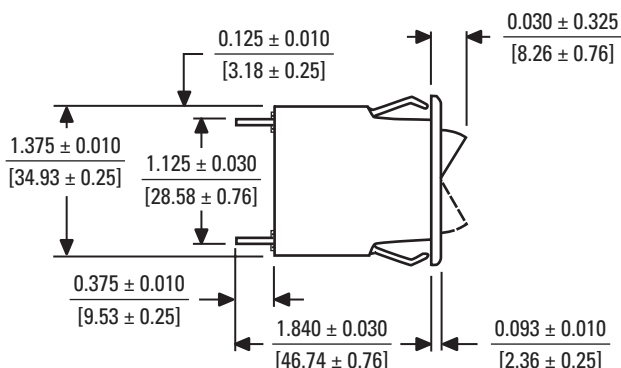
SNAPAKs are offered in single and two pole rocker styles in a choice of black, white or gray body colors. Handle color in non-illuminated types may be black, red, white or orange. Neon or light emitting diode (LED) illumination may be specified with a variety of options.

SNAPAK® circuit protectors with a second pole are available in paddle handle, push-pull, push-to-reset and rocker handle versions.

Mounting Detail



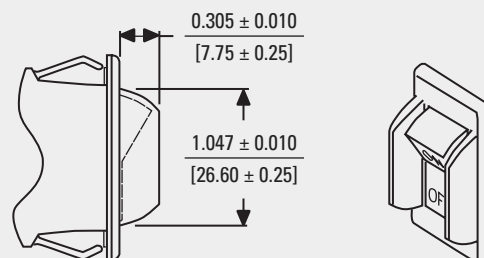
Rocker, Single Pole



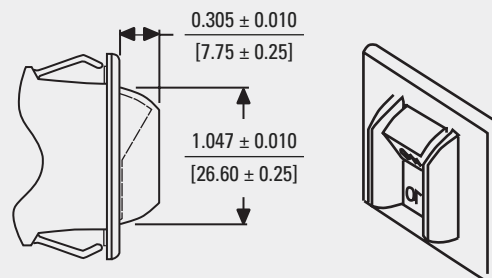
HANDLE GUARDS

The SNAPAK® circuit protector is available with an optional handle guard as an integrated part of the snap-in mounting design. Available for rocker actuators, the guard helps in providing protection from accidental "turn-off." Please refer to the SNAPAK® Part Number Decision Tables; fourth decision.

Handle Guards, Single Pole



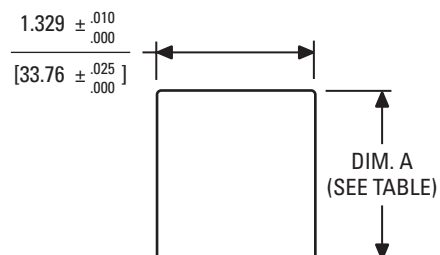
Handle Guards, Two Pole



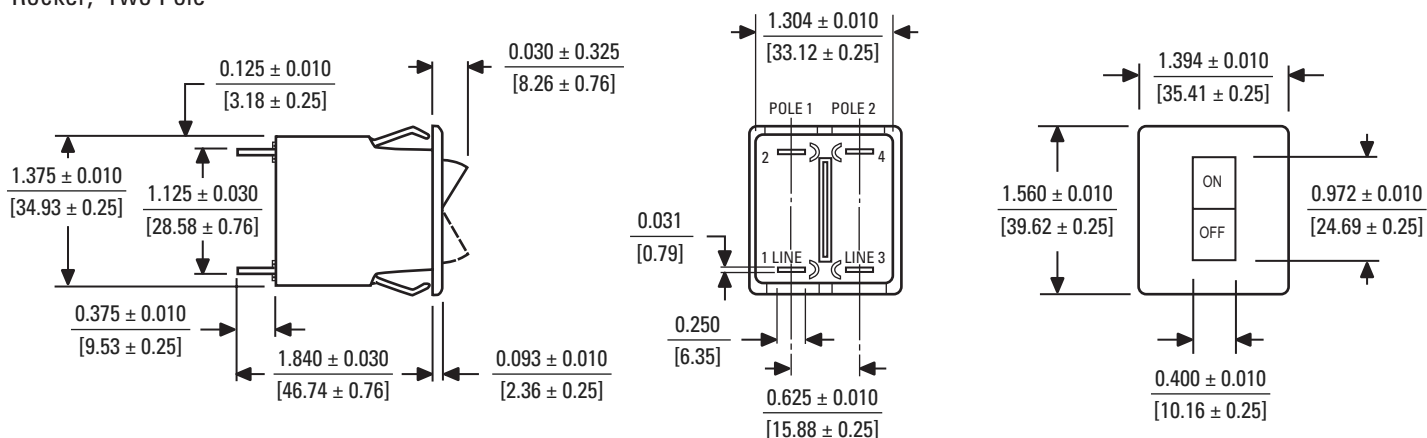
FRONT SNAP-IN MOUNT (STD)

Panel Thickness	0.125 [3.18]	0.093 [2.36]	0.062 [1.57]
Dimension "A"	1.460 [37.08]	1.420 [36.07]	1.385 [35.18]
Note: Tolerance for Mtg. $\pm .005$ (.13)			

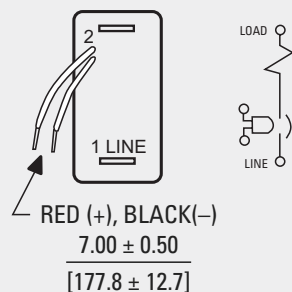
Mounting Detail



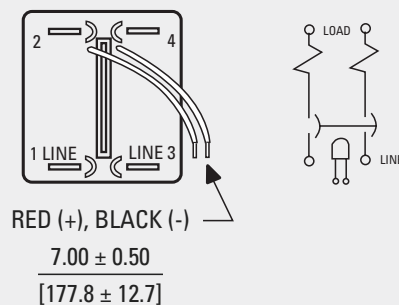
Rocker, Two Pole



Illuminated Handle
Single Pole



Two Pole

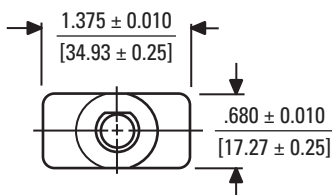
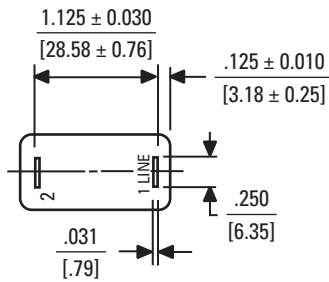
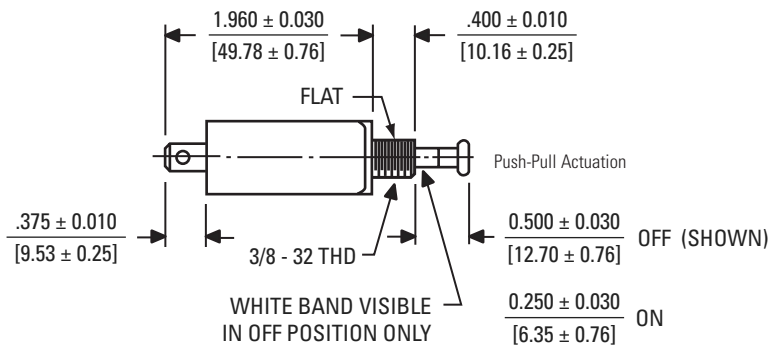


Note: Tolerance $\pm .005$ [.13] unless noted angles: $\pm 5^\circ$. Dimensions in Brackets [] are millimeters.

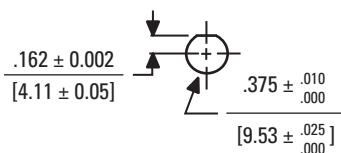
PUSH-PULL, PUSH-TO-RESET ACTUATOR

SNAPAK® may also be ordered with Push-Pull, or Push-to-Reset actuator buttons. As an option, the button can be embossed with the current rating (Push-Pull option only).

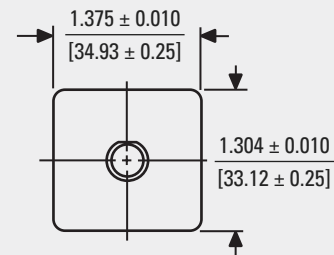
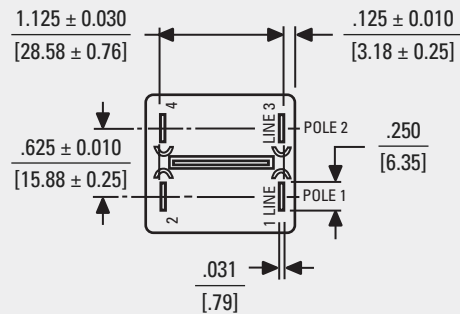
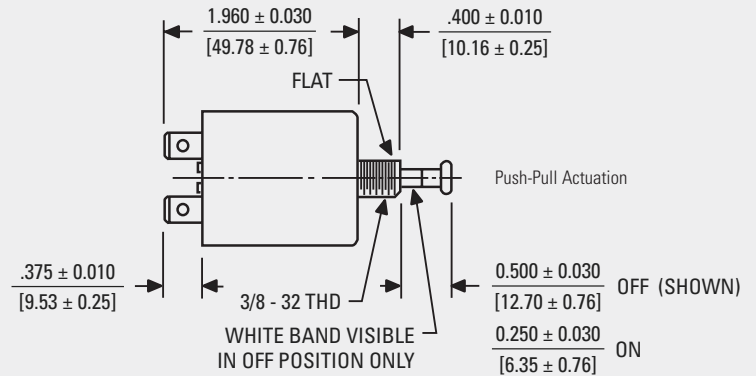
Push-Pull, Single Pole



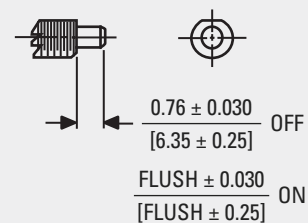
Mounting Detail
(Single Pole and Two Pole)



Push-Pull, Two Pole



Push-to-Reset Actuation
(Single and Two Pole)



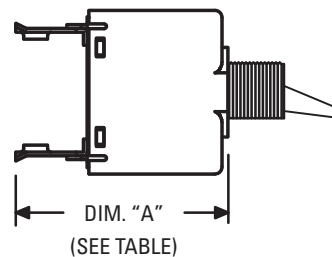
Note: Tolerance $\pm .005$ [.13] unless noted angles: $\pm 5^\circ$. Dimensions in Brackets [] are millimeters.

SCREW TERMINALS

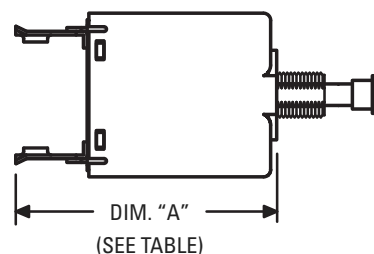
Available as straight screw terminals with UNC 8-32 and Metric M4 screw types, bus-type connect (flat) or upturned lugs (tabs), with UL, CSA and TÜV approvals available. Screw terminals are available for all handle options (rocker, toggle, push-pull, push-to-reset). Single pole only, series only, non-auxiliary switch configurations.

DIMENSION "A"		
Handle Style	Screw Terminal	"A" Dimension
Toggle	Straight	1.773 [45.03]
Push Button	Straight	2.180 [55.37]
Rocker	Straight	2.058 [52.27]

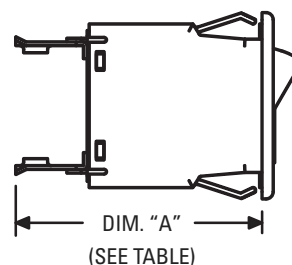
Toggle



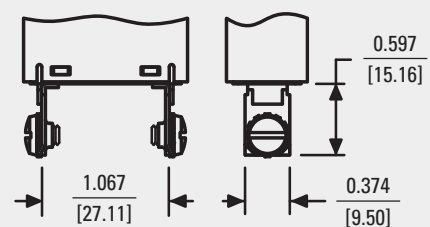
Push Button



Rocker



Straight



CONFIGURATIONS

Series Trip

The most popular configuration for magnetic protectors is the series trip where the sensing coil and the contacts are in series with the load being protected. In addition to providing conventional overcurrent protection, it is simultaneously used as an on-off switch.

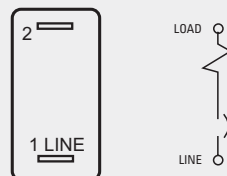
Shunt Trip

The shunt trip is designed for controlling two separate loads with one assembly. The control is established by providing overload protection for the critical load. When the current through this load becomes excessive and reaches the trip point, the protector will open and remove power from both loads simultaneously. The current rating of both loads must not exceed the maximum contact rating.

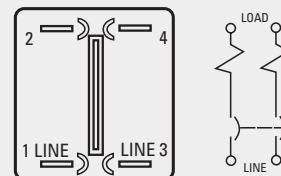
Relay Trip

This permits the overload sensing coil to be placed in a circuit which is electrically isolated from the contacts. The coil may be actuated by sensors monitoring pressure, flow, temperature, speed, etc. Other typical applications include crowbar, interlock and emergency/rapid shutdown circuitry. Trip may be accomplished by voltage or current, which must be removed after trip.

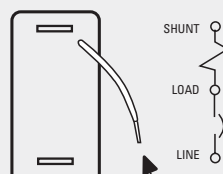
Series Trip
Single Pole



Two
Pole

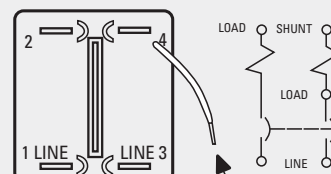


Shunt Trip
Single Pole



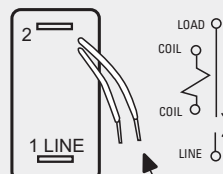
WHITE LEAD
 7.00 ± 0.50
[177.8 ± 12.7]

Two Pole
(1 pole shunt)



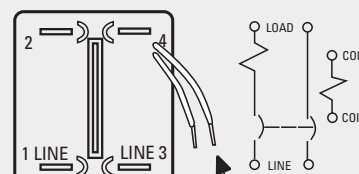
WHITE LEAD
 7.00 ± 0.50
[177.8 ± 12.7]

Relay Trip (Note A)
Single Pole



WHITE LEAD
 7.00 ± 0.50
[177.8 ± 12.7]

Two Pole
(1 pole relay)



WHITE LEAD
 7.00 ± 0.50
[177.8 ± 12.7]

Note A: Coil Ratings to 5 amperes maximum. Contact ratings are 7.5 amperes at 50 Vdc and 250 Vac; 15 amperes at 120 Vac; 32 Vdc.

Note: Tolerance $\pm .005$ [.13] unless noted.
Dimensions in Brackets [] are millimeters.

Auxiliary Switch

This is furnished as an integral part of a series pole in single or, multi-pole assemblies. Isolated electrically from the protector's circuit, the switch works in unison with the power contacts and provides indication at a remote location of the protector's ON-OFF status.

Voltage Trip

Sometimes called "dump circuits" or "panic trip circuits," these units make it possible to open main power contacts with lower power inputs from one or more sources. This configuration is becoming increasingly more important for sensitive circuitry and denser packaging in automation systems. Available in series, shunt or relay configurations.

Power Switch

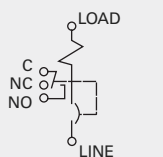
In the event that over-current protection is not desired, the coil mechanism can be deleted, providing an excellent low cost single or double-pole power switch. Maximum current rating is 20 amps.

Auxiliary Switch (Note B) Single Pole



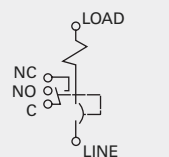
0.093
[2.36] 0.040 [1.02] DIA. HOLE
(FOR SOLDER ATTACHMENT)

.100 to 20.0 amps,
NON-VDE &
NON-TÜV >20amps

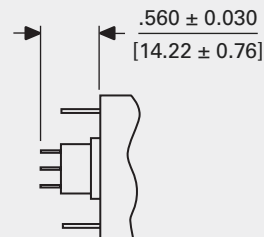


BREAKER SHOWN
IN OFF POSITION

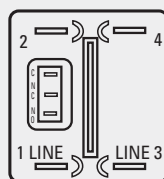
VDE, TÜV >20amps
& U3 Construction



BREAKER SHOWN
IN OFF POSITION

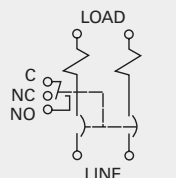


Auxiliary Switch (Note B) Two Pole



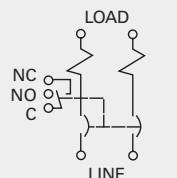
0.093
[2.36] 0.040 [1.02] DIA. HOLE
(FOR SOLDER ATTACHMENT)

.100 to 20.0 amps,
NON-VDE &
NON-TÜV >20amps

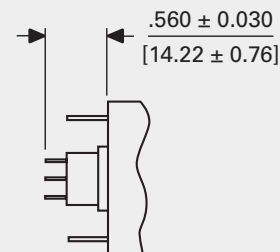


BREAKER SHOWN
IN OFF POSITION

VDE, TÜV >20amps
& U3 Construction



BREAKER SHOWN
IN OFF POSITION



Note B: Switch is located in the left hand pole (viewed from terminal end).

OPERATING CHARACTERISTICS

Inrush Pulse Tolerance

Many circuit protector applications involve a transformer turn-on, an incandescent lamp load, or a capacitor charge from a DC source. Each of these applications has one common factor: a steep transient of very high current amplitude and short duration. This takes the form of a spike or a single pulse and is the cause of most nuisance tripping associated with magnetic circuit breakers.

SNAPAK® will withstand, without tripping, a single pulse of 8 milli-seconds duration (half sine wave configuration) and peak amplitude of 9 times its rating without the inertia wheel and 13 times its rating with an inertia wheel. (Not applicable to instant trip delays).

MAXIMUM DCR AND IMPEDANCE

Current Ratings (Amps)	T/R/PP/PR DC Resistance	T/R/PP/PR 50/60Hz Impedance	CR/CPP/CPR DC Resistance
.100	.175	.181	.274
.500	6.34	6.63	9.77
1.00	1.63	1.69	2.31
2.00	.400	.425	.465
3.00	.175	.188	.261
4.00	.103	.106	.156
5.00	.076	.078	.091
7.50	.038	.039	.053
10.0	.026	.028	.023
12.5	.020	.021	.020
15.0	.013	.014	.010
20.0	.010	.011	.008
25.0			.004
30.0			.003

DCR and Impedance is measured after 1 hour at 100% rated current using the Voltmeter-Ammeter Method.

PULSE TOLERANCE

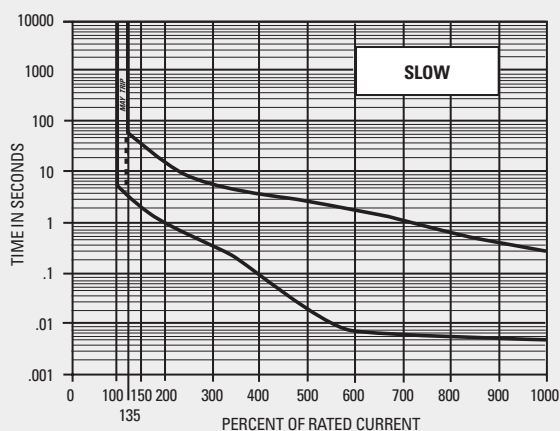
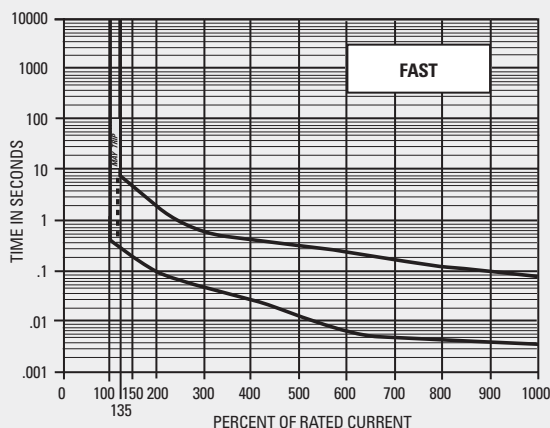
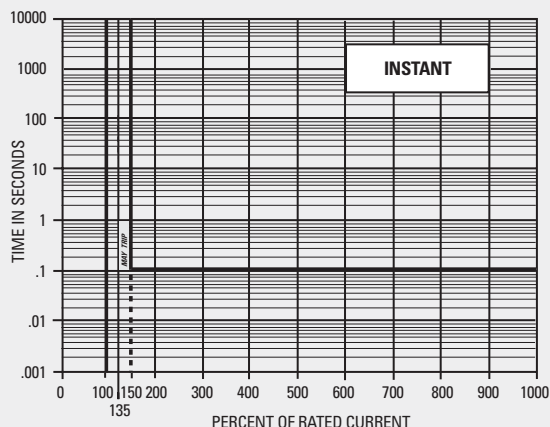
Delay	Pulse Tolerance
1, 2, 61, 62	*9 Times Rated Current
3, 4, 61F, 62F	*13 Times Rated Current

** Units above 15 amps are derated to 8 and 12 times rated current*

PERCENTAGE OF RATED CURRENT VS TRIP TIME IN SECONDS AT +25°C (VERTICAL MOUNT)

Delay	100%	135%	150% *	200%	400%	600%	800%
Instant	No Trip	May Trip	.100 Max	.100 Max	.100 Max	.100 Max	.100 Max
Fast	No Trip	.3 to 7	.2 to 5	.1 to 2	.03 to .50	.015 to .30	.010 to .150
Slow	No Trip	3 to 70	2 to 40	1 to 15	.10 to 4.0	.015 to 2.0	.010 to .800

** Minimum trip for all instantaneous and 400Hz units.*



DELAY CURVES & SPECIFICATIONS

400 Hz, DC, 50/60Hz Delay Curves (typ)

A choice of delays is offered for DC, 50/60Hz and 400Hz applications. Delays 0, 49, 59 and 69 provide fast-acting, instantaneous trip and are often used to protect sensitive electronic equipment (not recommended where known inrush exists). Delays 1, 41, 51 and 61 have a short delay for general purpose applications. Delays 2, 42, 52 and 62 are long enough to start certain types of motors and most transformer and capacitor loads.

Trip Free

Will trip open on overload, even when forcibly held on. This prevents operator from damaging the circuit by holding handle in the ON position.

Trip Indication

The operating handle moves forcibly and positively to the OFF position on overload.

Ambient Operation

Operates normally in temperatures between -40°C and $+85^{\circ}\text{C}$.

Insulation Resistance

Not less than 100 megohms at 500Vdc.

Dielectric Strength

Withstands 1500 volts, 60Hz for 60 seconds or 1800Vac for one second between all electrically isolated terminals.

Endurance

Mechanical life in excess of 50,000 operations. In many applications, however, contact wear due to the electrical load determines unit life. At maximum electrical ratings, the SNAPAK® can perform 10,000 operations at rated current and voltage. Under UL 1077, the SNAPAK® can perform 50 operations at 150% of maximum rated current followed by 6,000 operations at maximum rated current. Under VDE 0642 (EN60934) the SNAPAK® can perform 6,000 electrical operations. After any endurance cycle, the breaker will calibrate and have working dielectric strength.

AGENCY APPROVALS (T/P/PP/PR SUPPLEMENTARY PROTECTORS)

Voltage (Volts), Frequency (Hz), Phase, Min Poles, TC, OL						Current (Amps)		Short Circuit Current Rating (Amps)		
Voltage	Frequency (Hz)	Phase	Min. Poles	TC	OL	UL/CSA	VDE	UL 1077 & CSA	VDE	Notes
32	DC	-	1	1	0	.10-30(3)	.10-20	U1, 1000	500	
38	DC	-	1	1	0	.10-15	-	U2, 1000 / U1, 1000	-	PR only
65	DC	-	1	1	0	.10-7.5	-	U2, 500 / U1, 500	-	
65	DC	-	2	1	0	.10-15	-	U1, 1000	-	
65	DC	-	2	1	0	.10-20	.10-20	U2, 500 / U1, 500	500	
65(2)	DC	-	1	1	0	.10-30	.10-30	U2, 120	120	R, PP, PR only
65(2)	DC	-	2 only	1	0	.10-25	-	U1, 100	-	R only
65(2)	DC	-	2	1	0	.10-25	-	U2, 500	-	R only
125	50/60	1	1	1	0	.10-20	7.6-20	U1, 1000	500	
125	50/60	1	1	1	0	.10-30(3)	-	U1, 1000	-	T only
125(2)	50/60	1	1	1	0	.10-30	-	U2, 1000	-	R, PP, PR only
125(2)	50/60	1	1	1	1	.10-30	20.1-30	U3, 300(1)	500	R, PP, PR only
120/240	50/60	1	2	2	0	.10-20(3)	-	U2, 1000	-	
120/240	50/60	1	2	2	0	.10-30(3)	-	U1, 650	-	
125/250	50/60	1	2	2	0	.10-20	-	U1, 1000	-	
250	50/60	1	1	2	0	.10-20	.1-7.5	U1, 500	500	
250	50/60	1	1	1	0	.10-7.5	-	C1, 1000(4)	-	
250	50/60	1	2	2	0	.10-20	.10-20	U1, 1000	500	
250(2)	50/60	1	2	1	1	.10-30	-	U3, 300	-	R only
125	400	1	1	2	0	.10-20	-	U1, 1000	-	
125/250	400	1	2	2	0	.10-20	-	U1, 1000	-	
250	400	1	2	2	0	.10-20	-	U1, 1000	-	
250	400	1	1	2	0	.10-7.5	-	U1, 1000	-	
CR/CPP/CPR COMMUNICATIONS EQUIPMENT CIRCUIT BREAKERS										
65	DC	-	1 only	-	-	.10-30	.10-30	1000	1000	
80	DC	-	1 only	-	-	.10-30	.10-30	600	600	

(1) Non-standard construction. "Fit For Further Use" approval; (2) Non-snap action design; (3) No auxiliary switch available above 20A; (4) With 30A max. series fuse

General notes:

All supplementary protectors are of the overcurrent (OC) type
The family of protectors has been evaluated for end use application for use group (UG) A
The terminals (FW) are suitable for factory wiring only (0)
The maximum voltage ratings for which the protectors have been tested are shown in the chart
The current is the amperage range that the protectors have been tested
The tripping current (TC) for the protectors is either "1" (in the range of 125% to 135% of ampere rating) or "2" (more than 135% of ampere rating)
The overload rating (OL) – designates whether the protector has been tested for general use or motor starting applications.
0 – tested at 1.5 times amp rating for general use
1 – tested at 6 times AC rating or 10 times DC rating for motor starting
The short circuit current rating (SC) – The short circuit rating in amperes following a letter and number designating the test conditions and any calibration following the short circuit test is defined below:

AUXILIARY SWITCH RATING			
Silver			
3.0 amps	@	120 VAC	—
1.5 amps	@	—	32 VDC
Gold			
.100 amps	@	32 VAC	32VDC

APPROXIMATE WEIGHT PER POLE		
	Ounces	Grams
Rocker Configuration	0.9	25
Toggle, PP, PR	1.2	32

C – Indicates short circuit test was conducted with series overcurrent protection
U – Indicates short circuit test was conducted without series overcurrent protection
1 – Indicates a recalibration was not conducted as part of the short circuit testing
2 – Indicates a recalibration was performed as part of the short circuit testing
3 – Indicates recalibration was performed along with the dielectric and voltage withstand for "Suitable for Further Use" rating

Short Circuit Interrupting Capacity

1000 amperes maximum for UL and CSA, 500 amperes maximum for VDE. Consult factory for details.

Handle and Body Material

The handle and upper body material is polycarbonate and the lower body is PET.

Chemical Resistance

Handle and case may be cleaned with detergents or alcohols and should be restricted to outside surfaces only. Organic solvents are not recommended. Special attention should be given when solvents are used to remove excess flux from terminals. No oils or lubricants should be introduced into handle openings or onto bushing threads.

IEC, UL, CSA, SEV, VDE, CCC, CE, TÜV

Recognized by UL to STD-1077 and UL certified to spacing requirements of IEC 950 for basic and functional insulation for front panel mounting. Certified by CSA, file number LR26229 as recognized supplementary protectors, SEV approved, CCC approved, TÜV approved (including screw terminals) and VDE approved to VDE 0642. VDE approval of unmarked rocker handle option for appliance disconnect requires status of protectors to be indicated on the panel. Only VDE approved part numbers will be marked CE compliant. See shaded areas of part number decision tables for approved configurations and/or consult factory for exceptions and limitations.

Shock

Withstands 75G without tripping while carrying full rated current per MIL-STD-202, Method 213, Test Condition I. Instant trip breakers are tested at 80% of rated current.

Vibration

Time delayed units withstand 10G without tripping while carrying full rated current per MIL-STD-202, Method 204, Test Condition A. Instant trip breakers are tested at 80% of rated current.

UL 489A Listed

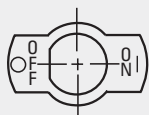
The CR, CPP and CPR are dimensionally the same as the popular R, PP and PR Snapack products, but provide UL listing to UL489A for Communications Equipment. Available only in single pole with DC trip time delays for series or series with silver auxiliary switch configurations. As a circuit breaker, the CR, CPP or CPR provides communication equipment manufacturers with a UL listed circuit breaker in an extremely compact package that meets the stringent environmental requirements of today's marketplace. This makes the CR, CPP and CPR ideal for switching, transmission and wireless applications.

Paddle Handle Hardware



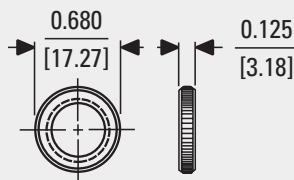
- A

Vertical Mount



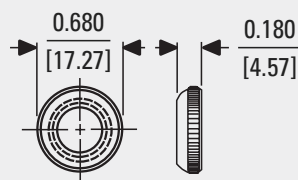
- B

Horizontal Mount



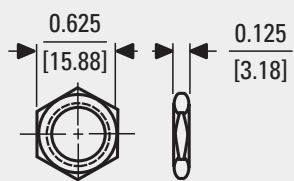
- 10 & -11

Knurled Nut



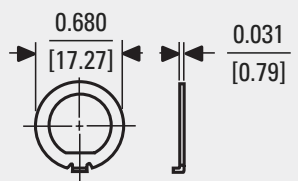
- 20 & -21

Panel Dress Nut



- 31

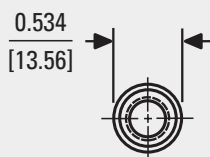
Hex Nut



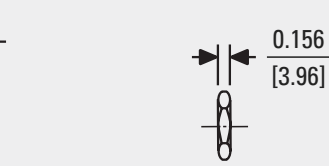
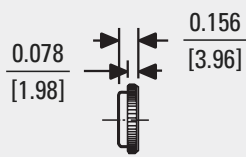
- L

Locking Ring (Toggle)

Push-Pull & Push-to-Reset Hardware



3/8 - 32 Panel Nut
Bright Nickel



3/8 - 32 Hex Nut
Bright Nickel

HARDWARE

Indicator Plates

SNAPAK® toggle handle circuit protectors may be specified with indicator plates for either vertical or horizontal mounting. The "ON-OFF/O-I" plate is standard.

Note 1:

To allow for installation clearances, the minimum recommended distances between centers of panel openings should be:

RECOMMENDED CENTER DISTANCES FOR PANEL OPENINGS	
Breaker Type	Distance, inches [mm]
T11	0.750 [19.05]
T21	1.375 [34.93]
PP11 & PR11	0.750 [19.05]
PP21 & PR21	1.375 [34.93]
R11	0.805 [20.45]
R21	1.429 [36.30]

Note 2: Torque on mounting hardware is not to exceed 25 inch-pounds for 1/2 inch bushings or 15 inch-pounds for 3/8 inch bushings.

Mounting Nuts (Toggle)

A choice of knurled, dress and hex nuts are available. All three are available in bright nickel. The knurled and dress nuts are also available in a matte black finish. Every SNAPAK® comes with a hex nut, but you may order the front panel nuts which will best enhance your design.

Miscellaneous Hardware

SNAPAK® circuit protectors with 1/2-32 thread may also be equipped with optional locking rings to prevent rotation of the unit after it is installed.

3/8 - 32 Hex Nut and Panel Nuts

The hardware will be supplied with each Push-Pull (PP) and Push-to-Reset (PR).

3/8 - 32 Panel Nut

This nut when reversed will provide alignment in .437 (11.1) and .468 (11.88) diameter round panel holes.

Note: Tolerance $\pm .010$ [.25] unless noted. Dimensions in brackets [] are millimeters.

4 Fourth Decision

Rocker			
Step 1: Choose Letter For Body Color			
B	Black	R	Black w/ Handle guard
G	Gray	S	Gray w/ Handle guard
W	White	T	White w/ Handle guard
Example: "W..." For White Rocker Body (Rocker Style)			

Step 2: Choose Handle Combinations		
Without Illumination Basic Handle Color (w/o Markings)		
01	Black	Example: "-W06"
02	Red	
06	White	
07	Orange	
With Illumination Basic Handle Color & Light Choice (w/o Markings)		
101	Clear w/Neon (Note A)	
102	Clear w/Green Glow Neon (Note A)	
103	Clear w/Red LED (Note B)	
104	Clear w/4-8 Vdc Red LED	
105	Clear w/8-16 Vdc Red LED	
107	Clear w/Green LED (Note B)	
108	Clear w/4-8 Vdc Green LED	
109	Clear w/8-16 Vdc Green LED	
121	Transparent Red w/Neon (Note A)	
123	Transparent Red w/Red LED (Note B)	
124	Transparent Red w/Red LED 4-8 Vdc	
125	Transparent Red w/Red LED 8-16 Vdc	
161	Translucent White w/Neon (Note A)	
162	Translucent White w/ Green Glow Neon (Note A)	
171	Transparent Amber w/Neon (Note A)	
181	Transparent Smoke Gray w/Neon (Note A)	
182	Transparent Smoke Gray w/Green Glow Neon (Note A)	
183	Transparent Smoke Gray w/Red LED (Note B)	
184	Transparent Smoke Gray w/4-8 Vdc Red LED	
185	Transparent Smoke Gray w/8-16 Vdc Red LED	
187	Transparent Smoke Gray w/Green LED (Note B)	
188	Transparent Smoke Gray w/4-8 Vdc Green LED	
189	Transparent Smoke Gray w/8-16 Vdc Green LED	
Example: "-W124"		
If you prefer NO markings, then your handle decision is now complete.		

Step 3: Choose Handle Markings

Marked For Vertical Mount-After choice of 3 digit number in step 2 above.



Add "**CV**"
for Combined
markings.



Add "**EV**"
for English
markings.
Example: "-W124EV"



Add "**IV**"
for Intl.
markings.

Marked For Horizontal Mount-After choice of 3 digit number in step 2 above.



Add "**CH**"
for Combined
markings.



Add "**EH**"
for English
markings.
Example "-W06EH"



Add "**IH**"
for International
markings.

If you have chosen a handle from this table, your 4th Decision and your catalog part number are now complete (except if you require "-S" screw terminal option from the 5th Decision Table.)

Paddle (T) Handle Color

-01	Black
-02	Red
-03	Yellow
-04	Green
-05	Blue
-06	White

If you have chosen a handle from this table, your 4th Decision is now complete except for hardware options in 5th Decision Table.

Push-Pull (PP, CPP and CPR)

-XX	No Button Markings desired (not available for CPP & CPR)		
-OA		Marked Buttons Available For These Amperages	
-OB		0.1	1
-OC		.25	2.5
		0.5	5
		.75	7.5
			15
			17.5
			20

If you have chosen a handle from this table, your 4th Decision & your catalog PN are now complete (except if you require "-S" screw terminal option from the 5th Decision Table.)

Push-to-Reset (PR)

-XX	No Button Markings Only
If you have chosen a handle from this table, your 4th Decision and your catalog PN are now complete (except if you require "-S" screw terminal option from the 5th Decision Table.)	

5 Fifth Decision

Hardware & Accessories (Notes C and D)

Group I		Group II (Indicator Plate)		Group V (Screw Terminal Options)			
-00	No Outer Hardware Desired	-A	Vertical Mount (Off/On & O/I)*	-C	SAE 8-32, Upturned Lugs (Tabs) Straight Terminal	-F	M4, Upturned Lugs (Tabs) Straight Terminal
-10	Black Knurled Nut						
-11	Bright Nickel Knurled Nut						
-20	Black Panel Dress Nut	-B	Horizontal Mount (Off/On & O/I)*	-D	SAE 8-32, Bus-Type Connect (Flat) Straight Terminal	-H	M4, Bus-Type Connect (Flat) Straight Terminal
-21	Bright Nickel Panel Dress Nut						
-31	Bright Nickel Hex Nut						
Group III		*Selection of A or B Indicator Plate required for VDE and CCC.		Please select a screw terminal option if you selected "S" in Decision 1			
-L	Locking Ring						

V = VDE, TÜV and CCC Approved

The shaded areas denote VDE, CCC (if applicable) and CE compliant options. The V will be added to any part number formed entirely from shaded decisions. If non-shaded areas are selected, the unit will not be VDE approved, nor CE compliant, but other approvals still apply. 20 amps max rating on VDE units.

T = TÜV Approved

This approval requires the addition of a T at the end of the PN. The unit will not be VDE approved. If non-shaded areas are selected, the unit will not be TÜV approved, with the exception being you can select screw terminals and screw terminal options (1st & 5th decision) as these options are TÜV approved.

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