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AIRPAX® | T/R/PP/PR CR/CPP/CPR Series

Hydraulic Magnetic Circuit Protectors (SNAPAK®)

INTRODUCTION

The AirpaxTM 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 sin-gle 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.

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.

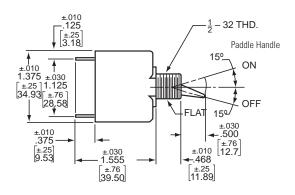
SNAPAK® circuit protectors are UL Recognized as supplementary protectors per UL STD. 1077, CSA Certified as supplementary protectors per CSA STD. C22.2 No. 235, VDE Approved as circuit breakers for equipment per STD. EN 60934, CCC Approved and CE Compliant. In addition, most versions are certified by UL to meet spacing requirements of IEC 950 for basic and functional insulation for front panel mounting.

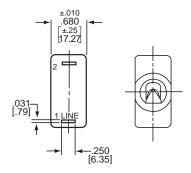
Consult factory for details and exceptions. Typical applications include office appliances, electronic data processing, medical equipment, business machines, vending and amusement machines. Push-pull versions are particularly well suited for medical instrumentation, automotive production transfer lines 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.

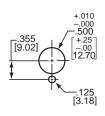
Single Pole, Toggle

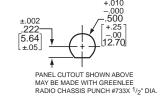




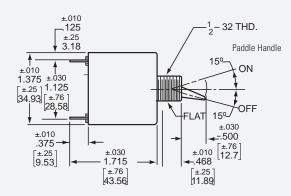
Mounting Details with Locking Ring

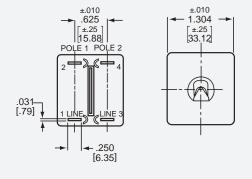
without Locking Ring





Two Pole, Toggle





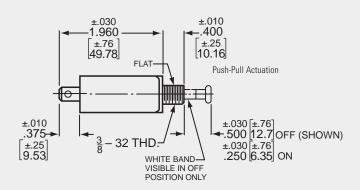
Note: Tolerance \pm .005 [.13] unless noted angles: $\pm 5^{\circ}$. Dimensions in Brackets [] are millimeters.

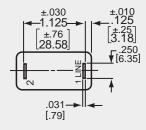


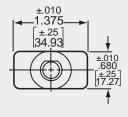
PUSH-PULL, PUSH-TO-RESET ACTUATORS

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).

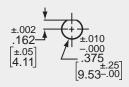
Push-Pull, Single Pole





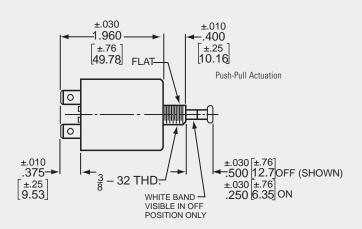


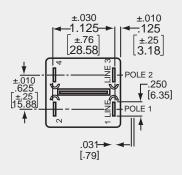
Mounting Detail (Single Pole and Two Pole)

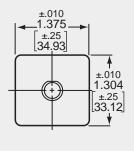


Note: Tolerance ± .005 [.13] unless noted angles: ±5°. Dimensions in Brackets [] are millimeters.

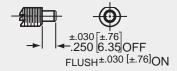
Push-Pull, Two Pole







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



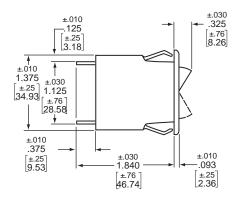


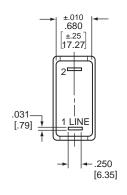
ROCKER HANDLES WITH ILLUMINATION OPTIONS

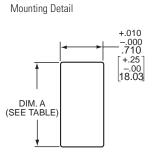
SNAPAKs are offered in single and two pole rocker styles in a choice of black, white or gray body colors. Handle color in non-illuminated types may be black, red, white or orange. Neon or light emitting diode (LED) illumination may be specified with a variety of options.

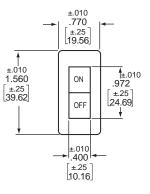
SNAPAK® circuit protectors with a second pole are available in paddle handle, push-pull, push-to-reset and rocker handle versions.

Rocker, Single Pole





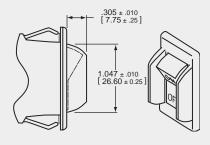




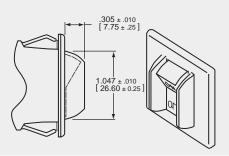
Handle Guards

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

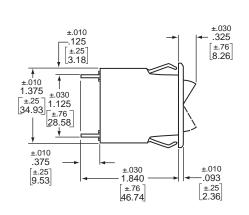


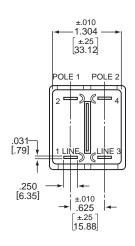
Handle Guards, Two Pole



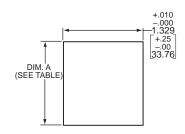
FRONT SNAP-IN MOUNT	(STD)		
Panel Thickness	0.125	0.093	0.062
	[3.18]	[2.36]	[1.57]
Dimension "A"	1.460	1.420	1.385
	[37.08]	[36.07]	[35.18]
N	ote: Toleran	ce for Mta. :	± .005 (.13)

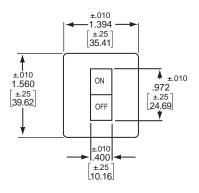
Rocker, Two Pole



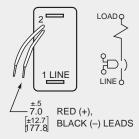


Mounting Detail

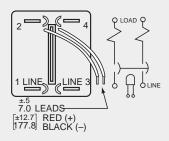




Illuminated Handle Single Pole



Two Pole



Note: Tolerance ± .005 [.13] unless noted angles: ±5°. Dimensions in Brackets [] are millimeters.



CONFIGURATIONS

Series Trip

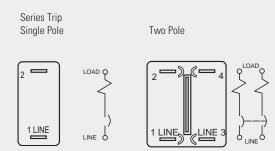
The most popular configuration for magnetic protectors is the series trip where the sensing coil and the contacts are in series with the load being protected. In addition to providing conventional overcurrent protection, it is simultaneously used as an on-off switch.

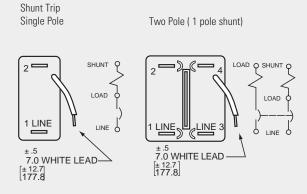
Shunt Trip

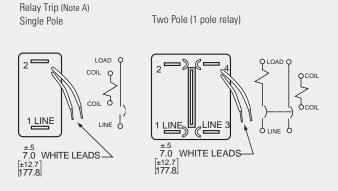
The shunt trip is designed for controlling two separate loads with one assembly. The control is established by providing overload protection for the critical load. When the current through this load becomes excessive and reaches the trip point, the protector will open and remove power from both loads 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.







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 ± .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 protectors circuit, the switch works in unison with the power contacts and provides indication at a remote location of the protector's ON-OFF status.

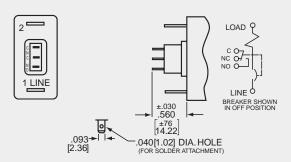
Voltage Trip

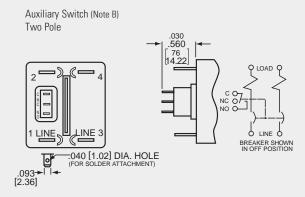
Sometimes called "dump circuits" or "panic trip circuits," these units make it possible to open main power contacts with lower power inputs from one or more sources. This configuration is becoming increasingly more important for sensitive circuitry and denser packaging in automation systems. Available 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 15 amps.

Auxiliary Switch (Note B) Single Pole





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.

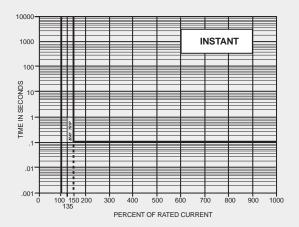
SNAPAK® will withstand, without tripping, a single pulse of 8 milli-seconds duration (half sine wave configuration) and peak amplitude of 9 times its rating without the inertia wheel and 13 times its rating with an inertia wheel. (Not applicable to instant trip delays).

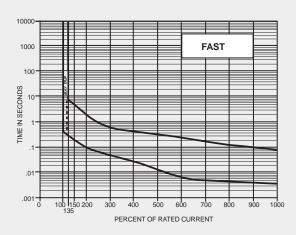
MAXIMUM DCR AND IMPEDANCE					
Current Ratings (Amps)	T/R/PP/PR DC Resistance	T/R/PP/PR 50/60Hz Impedance	CR/CPP/CPR DC Resistance		
.100	175	181	274		
.500	6.34	6.63	9.77		
1.00	1.63	1.69	2.31		
2.00	.400	.425	.465		
3.00	.175	.188	.261		
4.00	.103	.106	.156		
5.00	.076	.078	.091		
7.50	.038	.039	.053		
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		

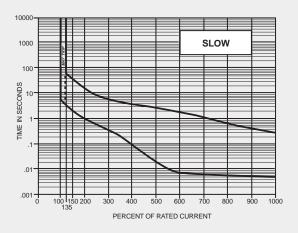
DCR and Impedance is measured after 1 hour at 100% rated current using the Voltmeter-Ammeter Method.

PULSE TOLERANCE	
Delay	Pulse Tolerance
1, 2, 61, 62	*9 Times Rated Current
3, 4, 61F, 62F	*13 Times Rated Current
* Units al	bove 15 amps are derated to 8 and 12 times rated current

PERCENTAG	E OF RATED CUF	RRENT VS TRIP	TIME IN SECON	NDS AT +25°C (V	/ERTICAL MOUN	NT)	
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 ti	rip for all instantaned	ous 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°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.



Current (Amps) Short Circuit Current Rating (Amps) Voltage Frequency (Hz) Phase Min. Poles UL/CSA VDE UL 1077 & CSA VDE Notes 32 Dc 0 .10-30(3) .10-20 U1, 1000 500 10-15 U2, 1000 / U1, 1000 38 DC 0 PR only 65 .10-7.5 U2, 500 /U1, 500 DC 0 65 Dc 0 10-15 U1. 1000 DC 10-20 .10-20 U2, 500 / U1, 500 65 0 500 65(2) DC n 10-30 .10-30 U2, 120 120 R, PP, PR only 65(2) DC .10-25 U1, 100 2 only lo R only U2, 500 65(2) DC n 10-25 R only 125 10-20 7.6-20 U1, 1000 500 50/60 n 125 50/60 n 10-30/3 U1 1000 T only 125(2) n U2, 1000 R, PP, PR only 50/60 10-30 20.1-30 500 R, PP, PR only 125(2) 50/60 10-30 U3, 300(1) 120/240 50/60 lo 10-20(3 U2. 1000 120/240 50/60 .10-30(3) U1, 650 125/250 50/60 10-20 U1, 1000 50/60 .1-7.5 U1, 500 500 250 10-20 250 50/60 10-7.5 C1, 1000(4)

1 only

(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

250

125

250

250

65

80

250(2)

125/250

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)

50/60

50/60

400

400

400

400

DC

DC

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

CR/CPP/CPR COMMUNICATIONS EQUIPMENT CIRCUIT BREAKERS

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)

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

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 thetest 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

.10-30

.10-30

10-20

- 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

U1, 1000

U3, 300

U1, 1000

U1. 1000

U1, 1000

U1. 1000

1000

600

500

1000

600

R only

Short Circuit Interrupting Capacity

10-20

10-30

10-20

10-20

10-20

.10-7.5

10-30

10-30

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

IEC, UL, CSA, SEV, VDE, CCC, CE

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 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.

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.

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.

IJL 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.

Toggle Hardware



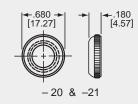
Vertical Mount



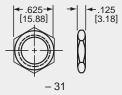
Horizontal Mount



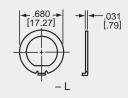
Knurled Nut



Panel Dress Nut

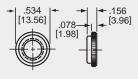


Hex Nut

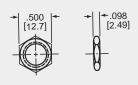


Locking Ring (Toggle)

Push-Pull & Push-to-Reset Hardware

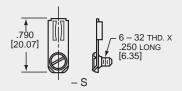


3/8 - 32 Panel Nut Bright Nickel



3/8 - 32 Hex Nut Bright Nickel

Optional Hardware



Screw Terminal Adapter (All Versions)

Note: Tolerance ± .010 [.25] unless noted.

Dimensions in brackets [] are millimeters.

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 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. Screw terminal adapters are also available on all SNAPAKs.

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.



HOW TO ORDER

The ordering code for the SNAPAK® circuit protectors may be determined by following the steps in the decision tables shown here.

The coding given permits a self-assigning part number, with certain limitations (due to the adaptability of magnetic protectors to complex circuits), requires a factory-assigned part number.

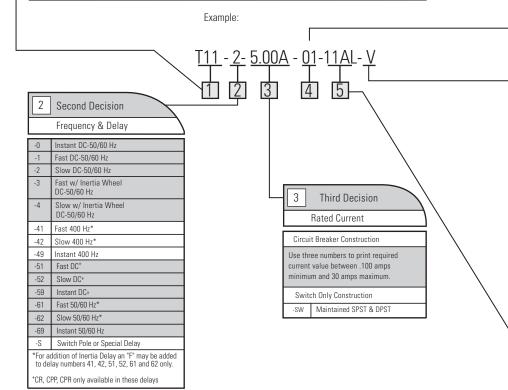
The example shown is the code for a paddle handle, single pole (UL construction), series circuit protector designed for operation of a 50/60Hz/DC circuit. A slow time delay and rating of 5 amperes has been indicated. Handle color is black, and a bright nickel knurled nut, vertical mount (ON-OFF) indicator plate and locking ring are to be supplied.

To determine the ordering code for your particular SNAPAK® unit, simply follow the steps shown, then fill in the letters and/or numbers in the boxes. Space is available on the circuit breaker label for your part number (up to 12 digits). You may then use your own part number to place an order or as a reference for further questions you may have. This option does require a factory assigned part number for traceability to your drawing or internal part number.

	Handle		Poles		Configurations*
Т	Paddle Handle	1	Single Pole †	0	Switch Only (Note E)
PP	Push-Pull	4	Single Pole ††	1	Series Circuit Protector
PR	Push-To-Reset	2	Two Pole †	3	Shunt Circuit Protector
R	Rocker	5	Two Pole ††	4	Relay Circuit Protector ††††
CR	Rocker	**		5	Series w/ Silver Aux. Switch †††
CPP	Push-Pull	**		6	Series w/ Gold Aux. Switch †††
CPR	Push to Reset	**		9	Mixed Construction (Two Pole Only)
† †† ††† ††††	Does not meet spacing Consult factory for act *Multi-pole units with	ruction cated in ngs for r Iditiona th mixed	construction, poles nun	nt spec nbered	

or switch only construction

**UL 489A listed, available in 1 pole series or series w/silver aux, switch, DC delay only



Notes:

- A A neon bulb is provided when specified for 120Vac and 250Vac operation. For operation at 120Vac a 33,000 ohm, 1/2 watt external resistor is required. At 250Vac a 100,000 ohm, 1 watt external resistor is required.
- B An LED with 750 ft. L @ 20mA is provided in the center of the handle. Maximum power dissipation @ 25°C is 135mW. Continuous forward current is 20mA. Forward voltage, typical, is 1.6v at 20mA. Reverse current, typical, is 100mA @ 3.0 volts. An external resistor may be required to limit current to these values.
- C When ordering Paddle Handles, you may choose one item from each hardware group to add to 5th decision if such items are desired. For example, "-11ALS" would indicate a bright nickel knurled nut, plus a vertical mount indicator, plus a locking ring, plus #6-32 screw terminal adapters. For Push-Pull, Rocker and Push-to-Reset versions, you may add only the #6-32 screw terminal adapters (-S).
- D All units except Rocker units will have (1) hex nut installed as standard hardware for the back of a panel. The choices in the fifth decision table are intended for the front or visible side of the panel and are offered for Paddle Handle configuration only. Push-Pull and Push-to-Reset configurations include one (1) panel nut and one (1) hex nut as standard hardware.
- E Switch only no current overload protection provided.

4 Fourth Decision

	Rocker		
	Step 1: Choose Letter For Body Color		
В	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
02	Red
06	White
07	Orange

Example: "-W06"

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" or Combined markings ON OFF

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



for Intíl. markings.

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

OFF ON O

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 Decison and your catalog part number are now complete (except if you require "-S" screw terminal option from the 5th Decision Table.)

complete except for hardware options in 5th Decision Table.

	Paddle (T) Handle Color
-01	Black
-02	Red
-03	Yellow
-04	Green
-05	Blue
-06	White
If you	u have chosen a handle from this table, your 4th Decison is now

Push-Pull (PP, CPP and CPR)								
-XX	No Button Markings desired (not available for CPP & CPR)							
-0A	LINE 5	Marked Buttons Available For These Amperages						
-OB	LINE (5)	0.1	1	10				
-0C	LI (S)	.25 0.5	2.5 5	15 17.5				
-06	NE CS	.75	7.5	20				
	If you have chosen a handle from this table, your 4th Decison and your catalog part number 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 Decison and your catalog part number 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)	
-00	No Outer Hardware Desired	-A	Vertical Mount	
-10	Black Knurled Nut		(Off/On & O/I)*	
-11	Bright Nickel Knurled Nut	-B	Horizontal Mount	
-20	Black Panel Dress Nut		(Off/On & O/I)*	
-21	Bright Nickel Panel Dress Nut		*Colontian of A or D Indicator Dista required for VDF	
-31	Bright Nickel Hex Nut		*Selection of A or B Indicator Plate required for VDE.	
	Group III		Group IV	
-L	Locking Ring	-S	6-32 Screw Terminal Adapters [Limited to 14A Max for VDE (-V)]	

V = VDE and CCC Approved

The shaded areas denote VDE approval, CCC approval (if applicable) and CE compliant options. This approval requires the addition of a V at the end of the part number. 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.

C = CCC Approved

This approval requires the addition of a C at the end of the part number. The unit will not be VDE approved.