



SNAPAK® is a snap-acting magnetic circuit protector that combines power switching and accurate, reliable circuit

protection in one aesthetically pleasing package. 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 (page 51). 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 $\mathsf{SNAPAK}^{\otimes}$ 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.



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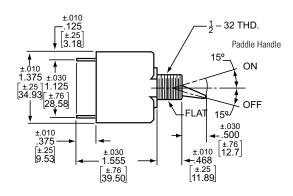


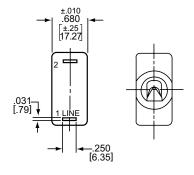




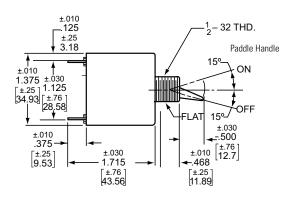
TOGGLE ACTUATION MAGNETIC CIRCUIT PROTECTORS

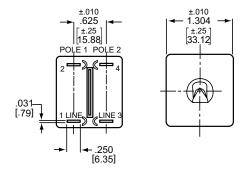
Single Pole, Toggle





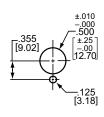
Two Pole, Toggle

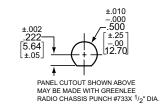




Mounting Details with Locking Ring

without Locking Ring





(see notes 1 & 2, page 49)

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.

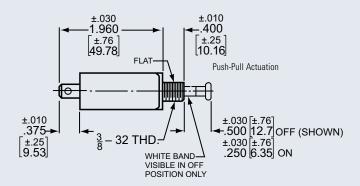
Note: Tolerance \pm .005 [.13] unless noted angles: $\pm 5^{\circ}$. Dimensions in Brackets [] are millimeters.

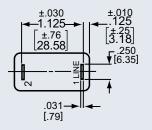
PUSH-PULL/PUSH-TO-RESET ACTUATION

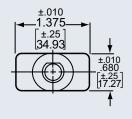
Push-Pull, Push-to-Reset Actuators

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).

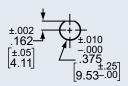
Push-Pull, Single Pole



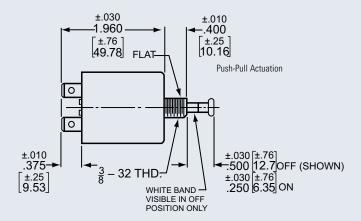


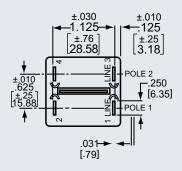


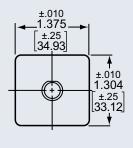
Mounting Detail (Single Pole and Two Pole)



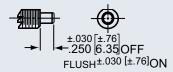
Push-Pull, Two Pole







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



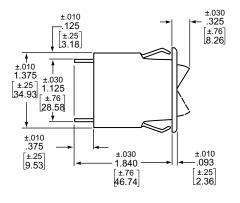
ROCKER HANDLES

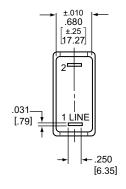
Rocker Handles with Illumination Options

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 (see Decision Tables, page 50).

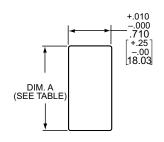
SNAPAK® circuit protectors with a second pole are available in paddle handle, push-pull, push-to-reset and rocker handle versions.

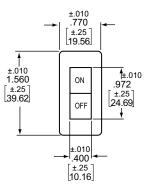
Rocker, Single Pole





Mounting Detail

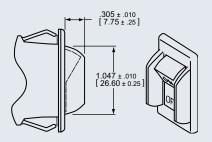




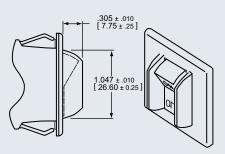
Handle Guards

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

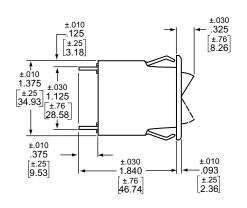


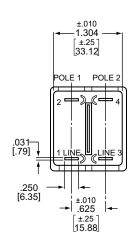
Handle Guards, Two Pole

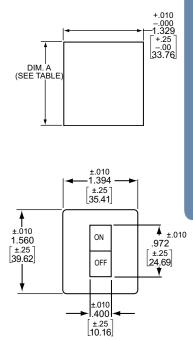


Front Snap-in Mount (STD)					
Panel Thickness	.125 (3.18)	.093 (2.36)	.062 (1.57)		
Dimension "A" 1.460 1.420 1.385 (37.08) (36.07) (35.18)					
Note: Tolerance for Mtg. ± .005 (.13)					

Rocker, Two Pole

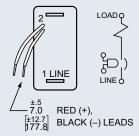




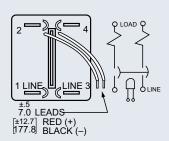


Mounting Detail

Illuminated Handle Single Pole



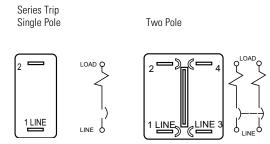
Two Pole



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.



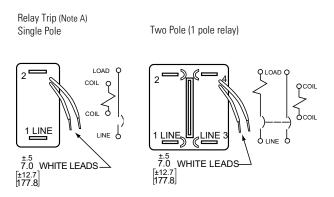
Shunt Trip

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.

Shunt Trip Single Pole Two Pole (1 pole shunt) Two Pole (1 pole shunt) LOAD O SHUNT O LOAD O

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.

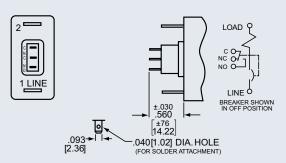
Voltage Trip

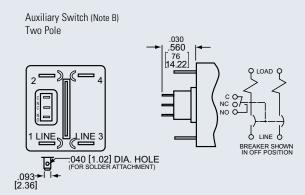
Sometimes called "dump circuits" or "panic trip circuits," these units make it possible to open main power contacts with lower power inputs from one or more sources. This configuration is becoming increasingly more important for sensitive circuitry and denser packaging in automation systems. Available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

Auxiliary Switch (Note B) Single Pole





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

OPERATING CHARACTERISTICS

Maximum DCR and Impedance

Current Ratings In Amperes	T/R/PP/PR DC Resistance	T/R/PP/PR 50/60 Hz 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						

Inrush Pulse Tolerance

Many circuit protector applications involve a transformer turnon, 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).

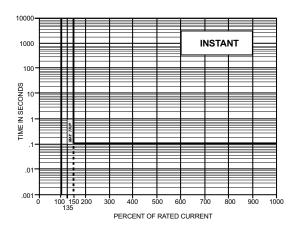
Delay	Pulse Tolerance				
1, 2, 61, 62	*9 Times Rated Current				
3, 4, 61F, 62F	31F, 62F *13 Times Rated Current				
* Units above 15 amps are derated to 8 and 12 times rated current respectively.					

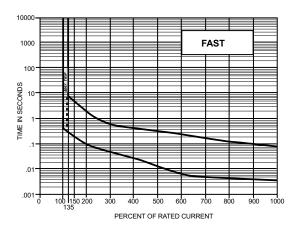
Percentage of Rated Current vs Trip Time in Seconds at +25°C (Vertical Mount)

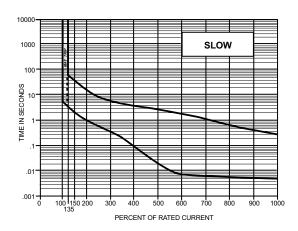
using the Voltmeter-Ammeter Method.

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	.3-7	.2 - 5	.1-2	.0350	.01530	.010150
Slow	No Trip	3-70	2 - 40	1-15	.10 - 4	.015 - 2.0	.010800
* Minimum trin for all instantaneous and 400 Hz 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.

SPECIFICATIONS

Agency Approvals

						Current (A	A)	Short Circ Rating (SC		
T/R/PP/PR SUPPLE	MENTARY PROTECTORS									
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	1
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 COMN	MUNICATIONS EQUIPMENT CIRCUIT BR	EAKERS								
65	DC	-	1 only	-	-	.10-30	.10-30	1000	1000	
80	DC	-	1 only	-	-	.10-30	.10-30	600	600	
(1) Non-standard co	onstruction. "Fit For Further Use" appro-	/al; (2) Non-snap action de	esign; (3) No auxiliary switch	available a	above 20A;	(4) With 30A max. se	ries 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 (0L) – designates whether the protector has been tested for general use or motor starting applications.

 $0-tested \ at \ 1.5 \ times \ amp \ rating \ for \ general \ use$

 $1-\mbox{tested}$ 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 AMP	@	120Vac	
1.5 AMP	@		32Vdc
Gold			
.100 AMP	@	32Vac	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
- $\label{eq:U-Indicates} U-Indicates short circuit test was conducted without series overcurrent protection$
- 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

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 approved 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 SWITCHING TRANSITION OF THE ORDER OF THE ORDER

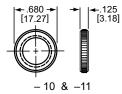
Toggle Hardware



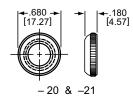
Vertical Mount



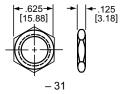
Horizontal Mount



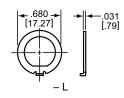
Knurled Nut



Panel Dress Nut

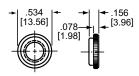


Hex Nut

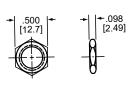


Locking Ring (Toggle)

Push-Pull & Push-to-Reset Hardware

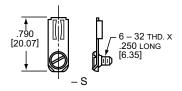


3/8 - 32 Panel Nut Bright Nickel



3/8 - 32 Hex Nut Bright Nickel

Optional Hardware



Screw Terminal Adapter (All Versions)

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:

T11	0.750	(19.05)		
T21	1.375	(34.93)		
PP11 & PR11	.750	(19.05)		
PP21 & PR21	1.375	(34.93)		
R11	.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.

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DECISION TABLES

Majorpower Applications: CR1552-05.0A-R211CVV / typical part number

How to Order

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

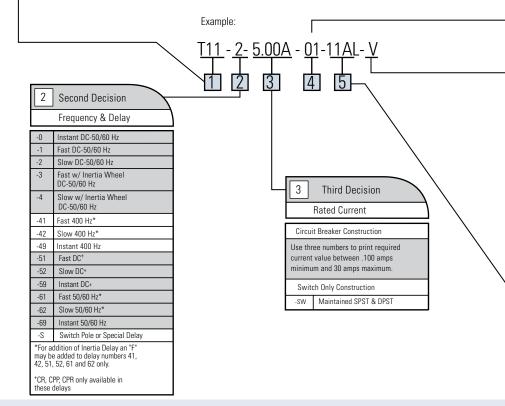
The coding given permits a self-assigning part number, with certain limitations (due to the adaptability of magnetic protectors to complex circuits), requires a factory-assigned part number.

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.

1 First Decision					
Handle Poles		Configurations*			
T	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)
† UL & CSA Construction †† Non UL & CSA Construction †† Auxilary Switch is located in the left hand pole (viewed from terminal end) ††† Does not meet spacings for many IEC / VDE equipment specs. Consult factory for additional information. *Multi-pole units with mixed construction, poles numbered left to right when viewed from terminal end. Shunt or relay construction available in pole 2 only, other pole must be a series 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)					

	To writte flocker body (flocker Style)						
	Step: 2: Choose Handle Combinations						
	Without Illumination Basic Handle Color (w/o Markings)						
01	Black						
02	Red	Example: "-W06"					
06	White	Examplevvoo					
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 (No	ote B)					
184	Transparent Smoke Gray w/4-8 Vdc Red	LED					
185	Transparent Smoke Gray w/8-16 Vdc Rec	LED					
187	Transparent Smoke Gray w/Green LED (N	Note B)					
188	Transparent Smoke Gray w/4-8 Vdc Gree	en LED					
189	Transparent Smoke Gray w/8-16 Vdc Gre						
	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. ON O OFF OFF 0 Add "EV" for English markings. Add "IV" for Intíl. Add "CV" for Combined Example: "-W124EV" markings. markings. Marked For Horizontal Mount-After choice of 3 digit number in step 2 above. OFF ON I OFF ON

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.)

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

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

Push-Pull (PP, CPP and CPR)							
-XX	No Button Markii	No Button Markings desired (not available for CPP & CPR)					
-0A	LINE 5	Marked Buttons Available For These Amperages					
-OB	LINE (5)	0.1 .25	1 2.5	10 15			
-0C	LINE (S)	0.5	5	17.5			
		.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.)			

Fifth Decision

Hardware & Accessories (Notes C and D)

Group I Group II (Indicator Plate)		
	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 *Selection of A or B Indicator Plate required for VDE.		
-31 Bright Nickel Hex Nut Selection of A or B indicator Plate Tequired for VDE.		
Group IV Group IV		
-L Locking Ring -S 6-32 Screw Terminal Adapters [Limited to 14A Max for VDE (-V)]		

V = VDE and	CCC	Approved
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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.