SNAPAK®

MAGNETIC CIRCUIT PROTECTORS

The SNAPAK® series is a snap-acting hydraulic-magnetic circuit protector that combines power switching and accurate, reliable circuit protection in one aesthetically pleasing package. Previously referred to as the 213 family of circuit breakers, this category includes the Airpax B, CB, CPR, CPP, CR, CT, PP, PR, R, and T series. 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, TUV 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.

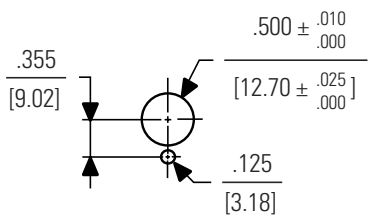
Consult factory for details and exceptions. Typical applications include office appliances, electronic data processing, medical equipment, business machines, vending and amusement machines. Push-pull versions are particularly well suited for medical instrumentation, automotive production transfer lines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

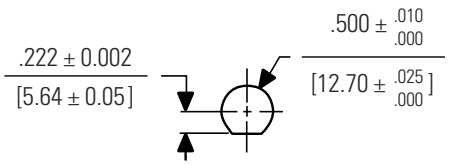
Mounting Tolerance ± .005 [.13] unless noted angles: ±5°. Dimensions in Brackets [ ] are millimeters

The SNAPAK® is available with paddle handles in six attractive colors. Engineered for safe, sure operation, the paddle handles may be specified in

Mounting Details with Locking Ring



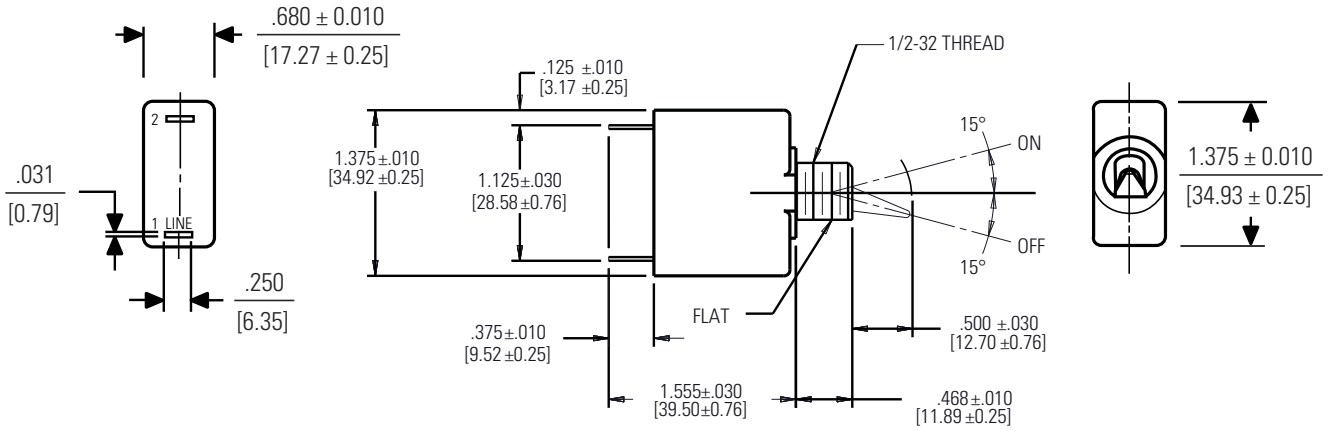
without Locking Ring



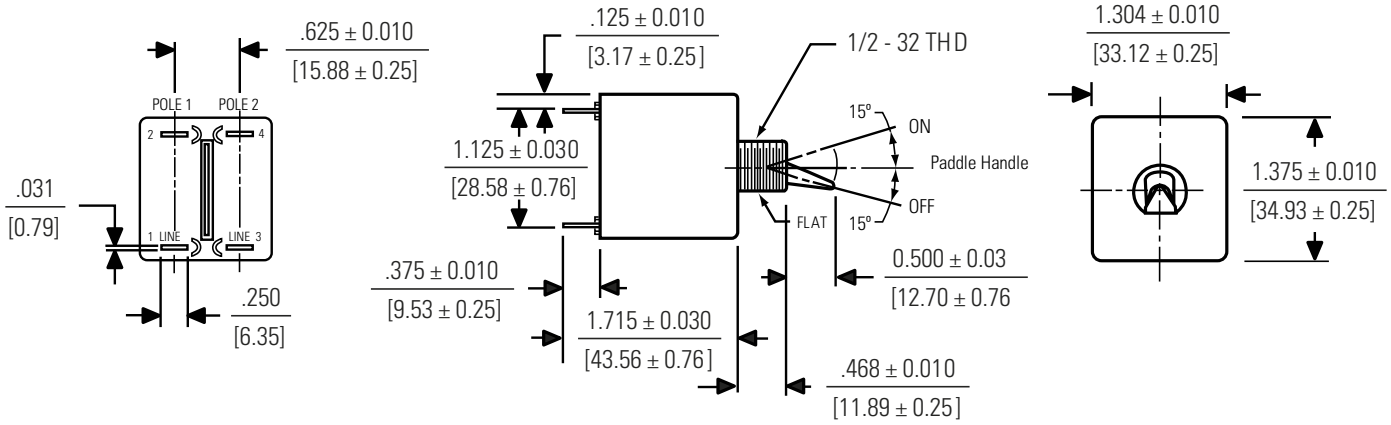
PANEL CUTOUT SHOWN ABOVE MAY BE MADE WITH GREENLEE RADIO CHASSIS PUNCH #733 x 1/2" DIA.

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Single Pole, Toggle



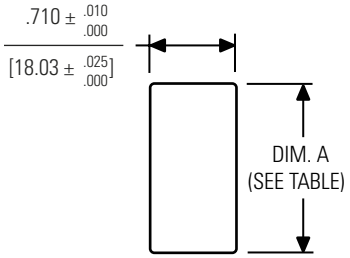
Two Pole, Toggle



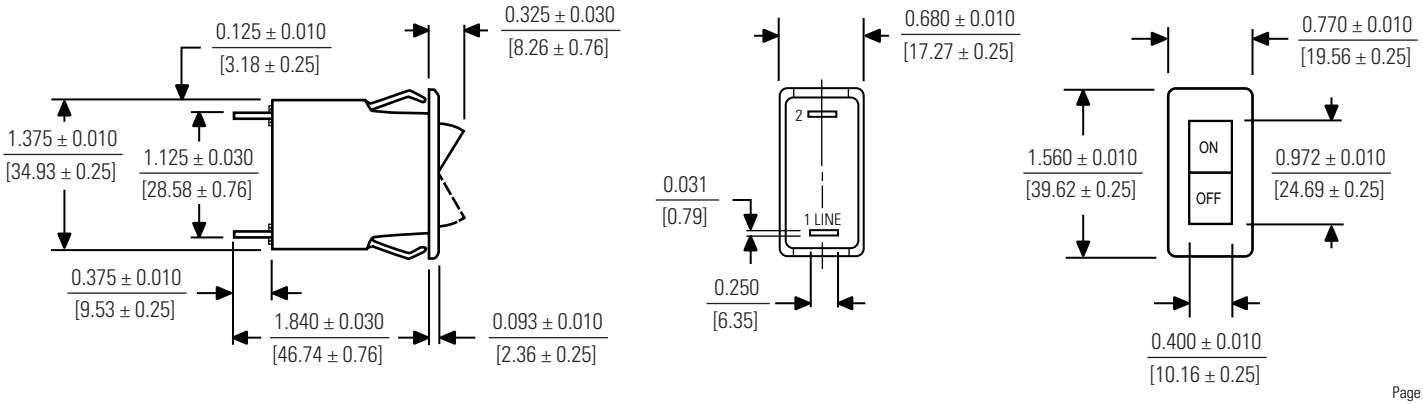
ROCKER HANDLES WITH ILLUMINATION

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

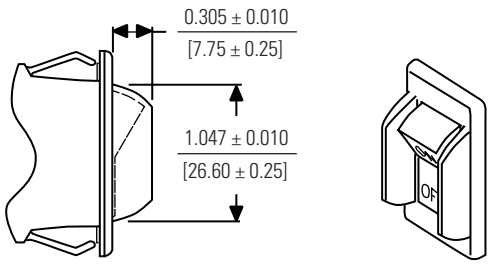


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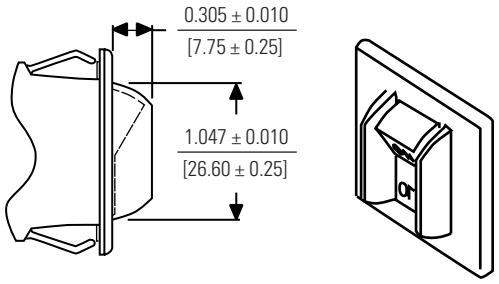
HANDLE GUARDS

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



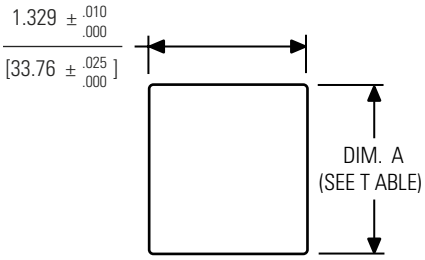
Handle Guards, Two Pole



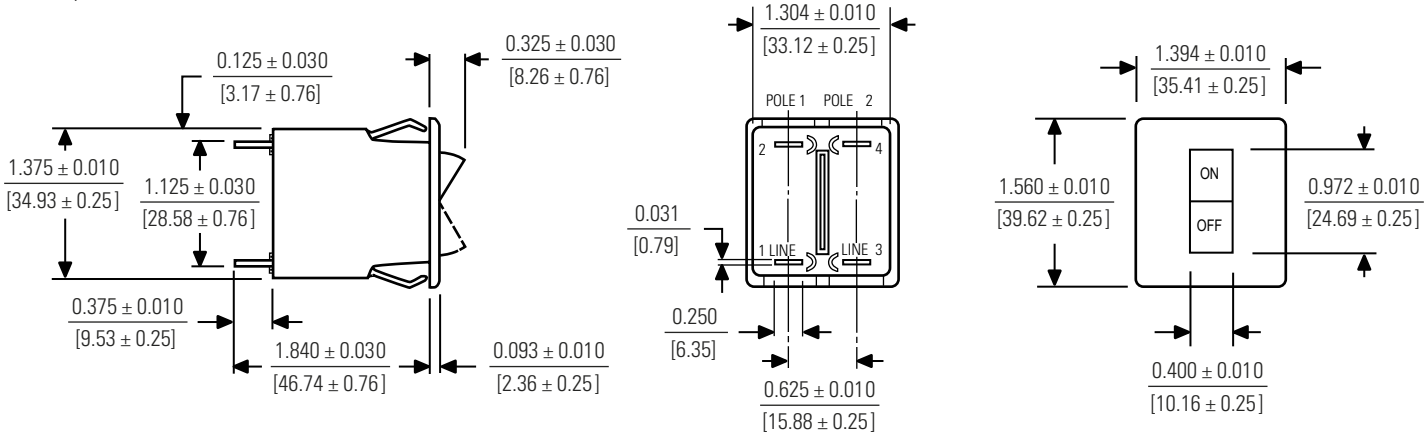
FRONT SNAP-IN MOUNT (STD)

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. ± .005 (.13)58			

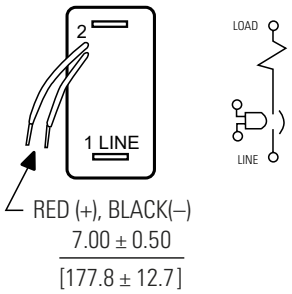
Mounting Detail



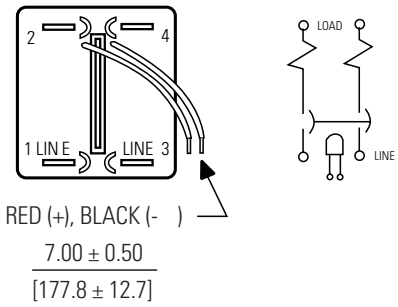
Rocker, Two Pole



Illuminated Handl e
Single Pole



Two Pole

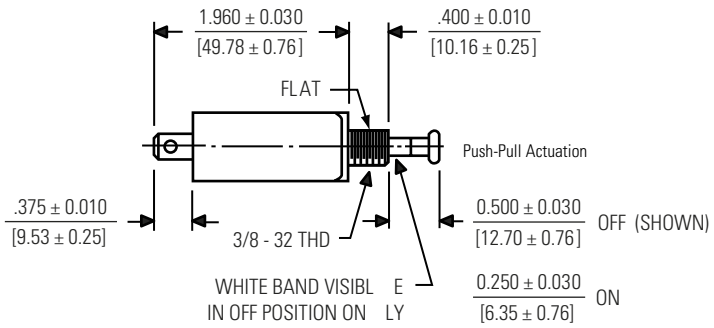


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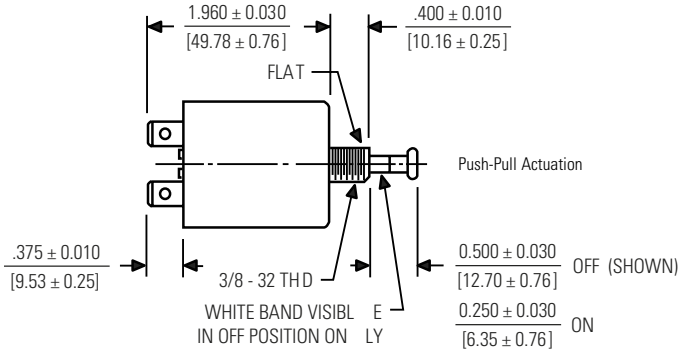
PUSH-PULL, PUSH-TO-RESET ACTUATOR

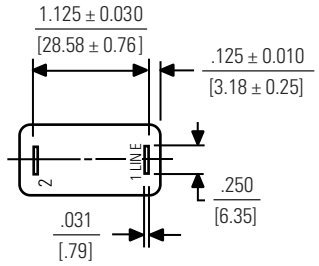
SNAPAK® may also be ordered with Push-Pull, or Push-to-Reset actuator buttons. As an option, the button can be embossed with the current rating (Push-Pull option only).

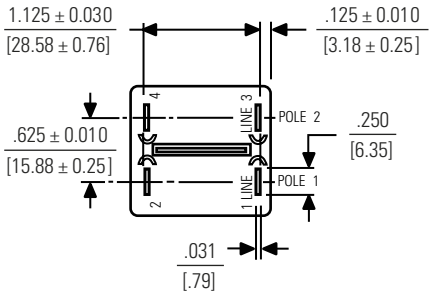
Push-Pull, Single Pole

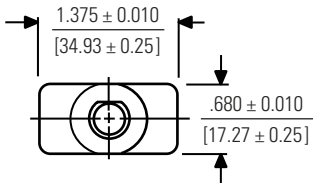


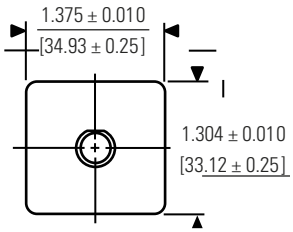
Push-Pull, Two Pole



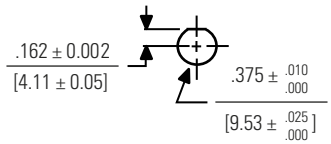




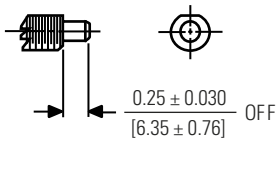




Mounting Detail
(Single Pole and Two Pole)



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



Note: Tolerance ± .015 [0.38] unless noted angles: ±5°. Dimensions in Brackets [ ] are millimeters.

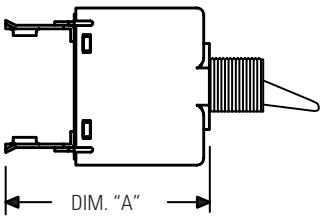
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SCREW TERMINALS

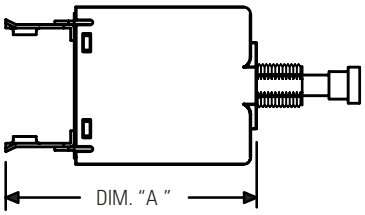
Available as straight screw terminals with UNC 8-32 and Metric M4 screw types, bus-type connect (flat) or upturned lugs (tabs), with UL, CSA and TÜV approvals available.

Screw terminals are available for all handle options (rocker, toggle, push-pull, push-to-reset). Single pole only, series only, non-auxiliary switch configurations.

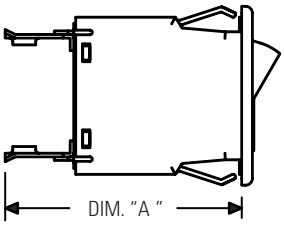
Toggle



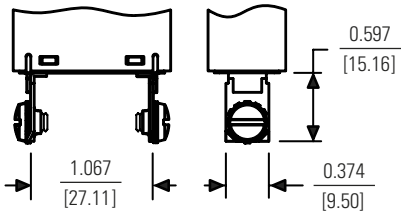
Push Button



Rocker



Straight



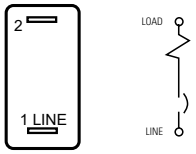
DIMENSION "A		
Handle Style	Screw Terminal	"A" Dimension
Toggle	Straight	1.773 [45.03]
Push Button	Straight	2.180 [55.37]

CONFIGURATIONS

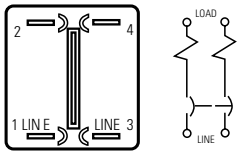
Series Trip

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.

Series Trip
Single Pole



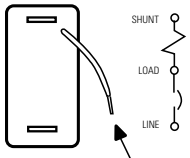
Two
Pole



Shunt Trip

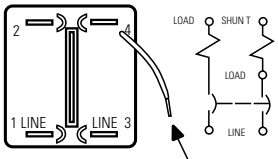
The shunt trip is designed for controlling two separate loads with one assembly. The control is established by providing overload protection for the critical load. When the current through this load becomes excessive and reaches the trip point, the protector will open and remove power from both loads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

Shunt Trip
Single Pole



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]

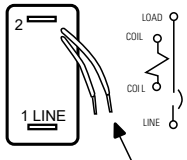
Relay Trip

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.

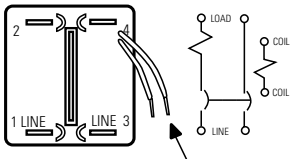
Tolerance ± .005 [.13] unless noted. Dimensions in Brackets [ ] are millimeters.

Relay Trip (Note A)
Single Pole



WHITE LEAD
7.00 ± 0.50
[177.8 ± 12.7]

Two Pole
(1 pole relay)

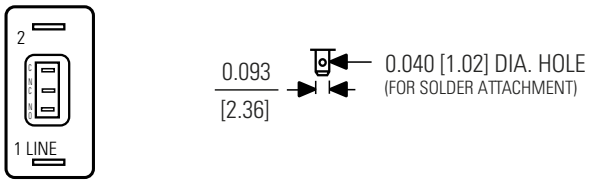


WHITE LEAD
7.00 ± 0.50
[177.8 ± 12.7]

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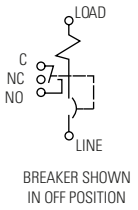
Auxiliary Switch
This is furnished as an integral part of a series pole in single or, multi-pole assemblies. Isolated electrically from the protector s circuit, the switch works in unison with the power contacts and provides indication at a remote location of the protector's ON-OFF status.

Auxiliary Switch (Note B)
Single Pole



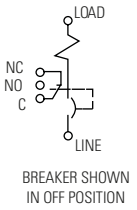
Voltage Trip
Sometimes called "dump circuits" or "panic trip circuits," these units make it possible to open main power contacts with lower power inputs from one or more sources. This configuration is becoming increasingly more important for sensitive circuitry and denser packaging in automation systems.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

.100 to 20.0 amps,

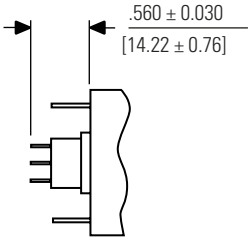


BREAKER SHOWN
IN OFF POSITION

>20amps
& U3 Construction

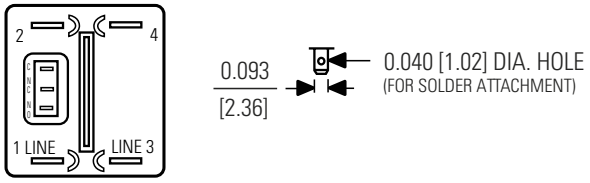


BREAKER SHOWN
IN OFF POSITION

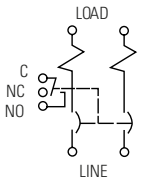


Power Switch
In the event that over-current protection is not desired, the coil mechanism can be deleted, providing an excellent low cost single or double-pole power switch. Maximum current rating is 20 amps.

Auxiliary Switch (Note B)
Two Pole

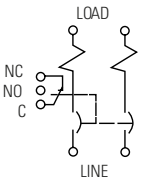


.100 to 20.0 amps,

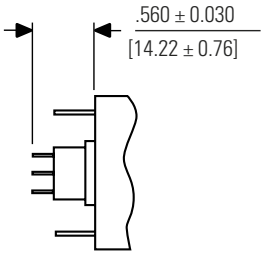


BREAKER SHOWN
IN OFF POSITION

>20amps
& U3 Construction



BREAKER SHOWN
IN OFF POSITION



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

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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	0.28	.023
12.5	.020	0.21	.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.

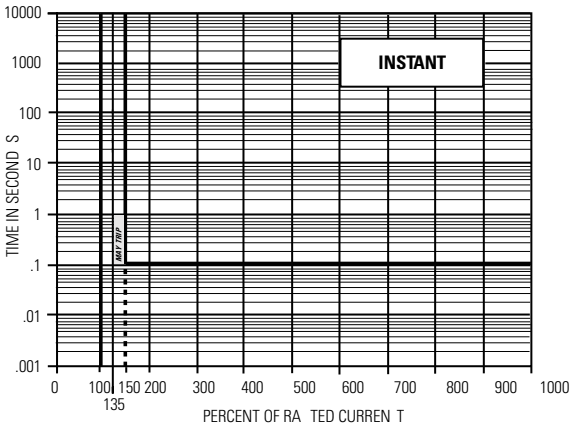
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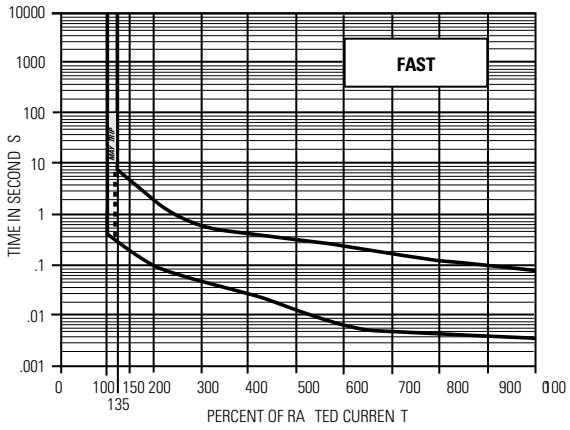
Ambient Operation
Operates normally in temperatures between –40° C and +85°C.

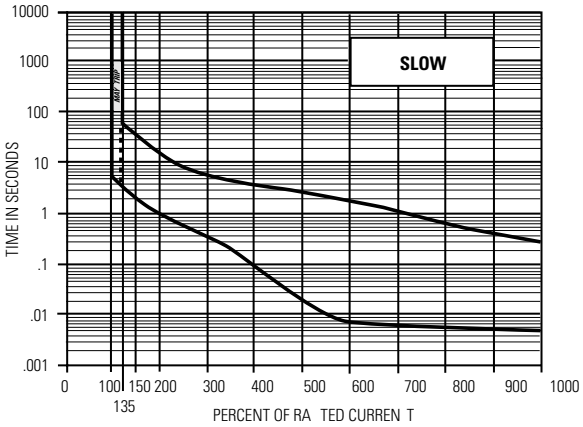
Insulation Resistance
Not less than 100 megohms at 500Vdc.

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 manyapplications, 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 EN60934 the SNAPAK® can perform 6,000 electrical operations. After any endurance cycle, the breaker will calibrate and have working







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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.

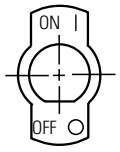
3/8 - 32 Hex Nut and Panel Nuts

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

3/8 - 32 Panel Nut

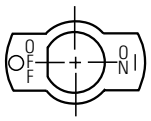
This nut when reversed will provide alignment in .437 (11.1) and .468 (11.88) diameter round panel holes.

Paddle Handle Hardware



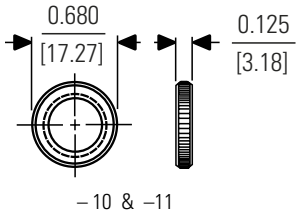
–A

Vertical Mount



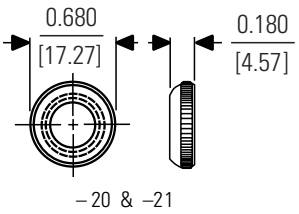
–B

Horizontal Mount



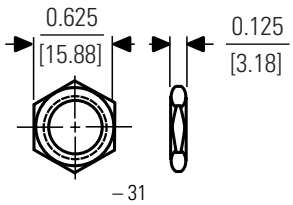
–10 & –11

Knurled Nut



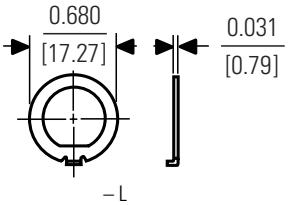
–20 & –21

Panel Dress Nut



–31

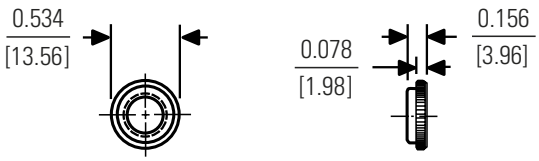
Hex Nut



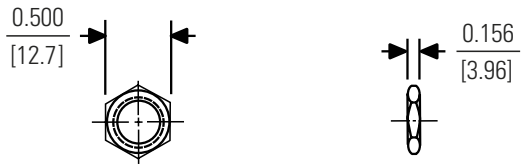
–L

Locking Ring (Toggle)

Push-Pull & Push-to-Reset Hardwar e



3/8 - 32 Panel Nut
Bright Nickel



3/8 - 32 Hex Nut
Bright Nickel

Note: Tolerance ± 0.015[.38] unless noted. Dimensions in brackets [ ] are millimeters.

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ORDERING OPTIONS

Example: T11-2-5.00A-01-11AL-V

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 (ULconstruction), series circuit protector designed for operation of a 50/60Hz/ DC circuit. A slow tim delay and rating of 5 amperes has beenindicated. 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 particularSNAPAK® unit, simplyfollow 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.

T11 - 2 - 5.00A - 01 - 11AL - V

Type

Handle	Poles	Configurations*	Terminals
T: Paddle Handle	**1:** Single Pole †	**0:** Switch Only (Note E)	Quick Connects (leave blank)
PP: Push-Pull	**4:** Single Pole ††	**1:** Series Circuit Protector	**S:** Screw Terminals, Single pole (-1) and series only (5th decision, group V - screw terminal option is required when 1st decision "S" is specified)
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 (2 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 / TUV 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

Frequency & Delay

-0: Instant DC-50/60 Hz	**-52:** Slow DC+
-1: Fast DC-50/60 Hz	**-59:** Instant DC+
-2: Slow DC-50/60 Hz	**-61:** Fast 50/60 Hz*
-3: Fast w/ Inertia Wheel DC-50/60 Hz	**-62:** Slow 50/60 Hz*
-4: Slow w/ Inertia Wheel DC-50/60 Hz	**-69:** Instant 50/60 Hz
-41* Fast 400 Hz***	**-S:** Switch Pole or Special Delay
-42* Slow 400 Hz*	* 20 amps max for 400Hz
-49* Instant 400 Hz	**For addition of Inertia Delay an "F" may be added to delay 41, 42, 51, 52, 61, 62 only
-51: Fast DC+	†CR, CPP, CPR only available in these delays

Rated Current

Circuit Breaker Construction
Use three numbers to print required current value between .100 amps minimum and 30.0 amps maximum.
For example, use: .100 or 2.00 or 10.0
Switch Only Construction
-SW: Maintained SPST & DPST
Note: 20.0 amps max for 400 Hz units.

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Rocker

Step 1: Choose Letter For Body Color
B: Black
G: Gray
W: White
R: Black w/ Handle guard
S: Gray w/ Handle guard
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
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 Intil. markings.



Add "CH " for Combined markings.

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



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 yourcatalog part number are now complete (except if you require "-S" screwterminal 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: -XX No button markings desired (not available for CPP & CPR)

-OA: 	Marked buttons available for these amperages		
-OB: 	0.1 .25	1 2.5	10 15
-OC: 	0.5 .75	5 7.5	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.)

Hardware & Accessories (Notes C and D)

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

T, V = TÜV and CCC Approved

The shaded areas denote 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 approved, nor CE compliant, but other approvals still apply. 20 amps max rating on units.

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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	TUV	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

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 applica-tions.
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 Capacity1000 amperes maximum for UL and CSA, 500 amperes maximum for TUV. 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 insu-lation for front panel mounting. Certified by CSA, file number LR26229 as recognized supplementa-ry protectors, SEV approved, CCC approved, TÜV approved (including screw terminals) to EN60934. TUV approval of unmarked rocker handle option for appliance disconnect requires status of protectors to be indicated on the panel. Only TUV 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
See table. Supplementary protectors withstand shocks without tripping. Carrying full rated current per mil-std-202, method 213, test condition I. Instant trip supplementary protectors are tested at 80% of rated current. Handle down direction is not applicable for pr and pp.

RATING	T	PP	PR	R	CR	CPP	CPR
0.1-20A	75G	75G	75G	75G	75G	75G	75G
20.1-30A	50G	50G	50G	75G	75G	75G	75G

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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 100,000ohm, 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, "-11ALCA" would indicate a bright nickel knurled nut, plus a vertical mount indicator, plus a locking ring, plus #8-32 screw terminal, straight with tabs.

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.

F. CCC Approval - If CCC is required on this product, please inform Sensata to have this product manufacturered in our China facility

WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions can result in death or serious injury.

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