Snap Action Switch

Double Pole General Purpose

E19, E20, G20

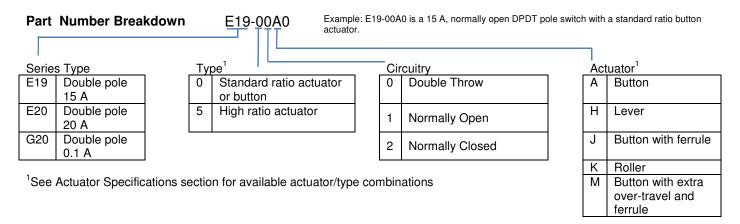


Features

- · Choice of 3 current ratings
- Long life coil spring, snap action mechanism
- Agency approved extended life versions available
- RoHS compliant
- High temperature versions available contact factory

Typical Applications

- Household appliances
- · Automated assembly lines
- Brake switch on utility vehicles
- · Industrial and accessible door openers
- Vending machines



Electrical Specifications per UL1054 - Min 6000 Operations

E19	6000 operations; 100,000 available – contact factory	15 A, 125 / 250 VAC 3⁄4 HP, 125 VAC / 1 ½ HP, 250 VAC
E20	6000 operations	20 A, 125 / 250 VAC 1 HP, 125 VAC / 2 HP, 250 VAC
G20	100,000 operations	0.1 A, 125 VAC

Commonly Stocked Distributor Parts

E19-00A0	E19-00M0	E20-00H0	E20-50K0
E19-00H0	E19-50H0	E20-00K0	
E19-00J0	E19-50K0	E20-00M0	
E19-00K0	E20-00A0	E20-50H0	

Note: Part numbers with a leading 0 are functionally no different than without a leading 0 (ex.: 0E19-00A0 is the same switch as E19-00A0)



Actuator Specifications⁴

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⊏∣	9/	GZU	Series

Actuator		Max	Max	Operating Point ⁵	Min Over-	Max	Actuation
		Operating	Pre-Travel		Travel	Movement	Length ⁶
		Force				Differential	•
		g (lb)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)
Α	=====	850 (1.87)	1.27 (0.050)	$7.24 \pm 0.76 \ (0.285 \pm 0.030)$	2.03 (0.080)	0.38 (0.015)	N/A
Н	tent	205 (0.45)	6.99 (0.275)	7.92 ± 1.57 (0.312 ± 0.062)	4.75 (0.187)	2.36 (0.093)	38.10 (1.500)
Н	High ratio	130 (0.28)	10.16 (0.400)	$7.14 \pm 1.57 \ (0.281 \pm 0.062)$	4.75 (0.187)	3.56 (0.140)	44.45 (1.750)
J	-(<u>***</u>	850 (1.87)	1.27 (0.050)	$17.02 \pm 0.76 \ (0.670 \pm 0.030)$	2.30 (0.080)	0.38 (0.015)	N/A
K	- Tendi	212 (0.47)	6.35 (0.250)	18.24 ± 1.57 (0.718 ± 0.062)	4.75 (0.187)	2.36 (0.093)	35.33 (1.391)
K	High ratio	150 (0.33)	7.92 (0.312)	17.45 ± 1.57 (0.687 ± 0.062)	4.75 (0.187)	3.56 (0.140)	41.78 (1.645)
М	-20-	850 (1.87)	1.27 (0.050)	20.62 ± 0.76 (0.812 ± 0.030)	5.54 (0.218)	0.38 (0.015)	N/A

E20 Series

Actuator		Max	Max	Operating Point ⁵	Min Over-	Max	Actuation
		Operating	Pre-Travel		Travel	Movement	Length ⁶
		Force				Differential	
		g (lb)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)
Α	=[max]	1280 (2.82)	2.54 (0.100)	$6.30 \pm 0.76 \ (0.248 \pm 0.030)$	1.27 (0.050)	0.38 (0.015)	N/A
Н	- James F	425 (0.94)	8.38 (0.330)	11.89 ± 1.57 (0.468 ± 0.062)	3.96 (0.156)	1.27 (0.050)	20.85 (0.821)
Н	High ratio	285 (0.63)	15.24 (0.600)	11.10 ± 1.57 (0.437 ± 0.062)	3.96 (0.156)	2.03 (0.080)	27.20 (1.071)
J	10 m ←	1280 (2.82)	2.54 (0.100)	$6.30 \pm 0.76 \ (0.248 \pm 0.030)$	1.27 (0.050)	0.38 (0.015)	N/A
K	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	425 (0.94)	8.84 (0.348)	21.84 ± 1.57 (0.860 ± 0.062)	3.96 (0.156)	1.14 (0.045)	17.48 (0.688)
K	High ratio	312 (0.69)	13.34 (0.525)	21.03 ± 1.57 (0.828 ± 0.062)	3.71 (0.146)	1.91 (0.075)	22.91 (0.902)
M	-(w_w)-	1280 (2.82)	2.54 (0.100)	19.66 ± 0.76 (0.774 ± 0.030)	4.78 (0.188)	0.38 (0.015)	N/A

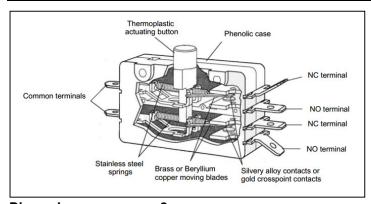
⁴Contact factory regarding combinations not shown

Material Specifications

Material Opecinications	
Case	General Purpose Phenolic
Actuating Button	Thermoplastic
Common Terminal	Copper Alloy
NO and NC Terminal	Copper Alloy (E13, G13) Copper (E14)
Moving Blade	Copper Alloy (E13, G13) Copper (E14)
Spring	Stainless Steel
Auxiliary Actuators	Cold-Rolled Steel (Nickel-Plated)
Roller	Sintered Stainless Steel
Contacts	Gold Crosspoint (G13) Silver Alloy (E13, E14)

Environmental Specifications

Temperature Rating	105 °C (221 °F) standard 150 °C (302 °F) available
Flammability Rating	UL94HB



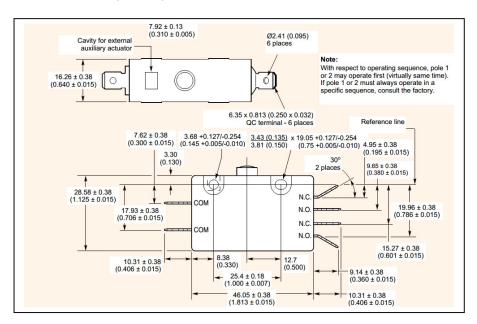
Dimensions - see page 3

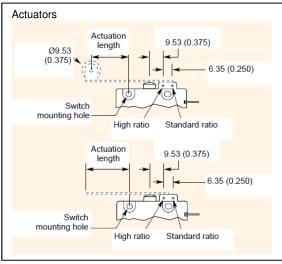


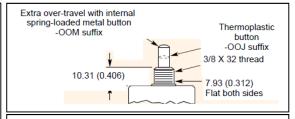
⁵Measured above reference line; refer to dimensional drawing below

⁶Actuator tolerances ± 0.791 mm (0.031"); E14 H and K actuators are shorter and formed up 11° at the button

Dimensions - mm (inches)







Optional hardware

Brass hex nut : 00120023 Plated hex nut: 00120028



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