

# V7 Series

## PRODUCT NOMENCLATURE

<b>V7</b>	<b>1</b>	<b>C</b>	<b>1</b>	<b>7</b>	<b>D8</b>	—	—	
Switch Type <sup>1</sup>	Operating Force	Electrical Rating <sup>3,6</sup>	Circuitry Code	Mounting/Construction <sup>4,6</sup>	Termination Style (Inches)	Lever Style <sup>2</sup>	Special Designator	
<b>V7 Series Miniature</b>		North America						
<b>1</b>	150 g max.	<b>A</b> 5 A @ 125 Vac	<b>1</b> SPDT	<b>3</b> 150 °C 2,9 mm [0.11 in] mtg. holes	<b>D8</b> 0.187 x 0.02 quick connect	<b>002</b> Straight 22,1 mm [0.87 in]	Use only if this switch has a special feature. Could be any number.	
<b>1</b>	175 g max. (V & J electrical rating)	<b>B</b> 11 A @ 125 Vac	<b>2</b> SPNO	<b>4</b> 150 °C 3,1 mm [0.12 in] mtg. holes	<b>E8</b> 0.187 x 0.02 quick connect spread	<b>022</b> Straight 35,6 mm [1.4 in]		
<b>1</b>	225 g max. (K & Z electrical rating)	<b>C</b> 15 A @ 125 Vac	<b>3</b> SPNC	<b>7</b> 85 °C 2,9 mm [0.11 in] mtg. holes	<b>D9</b> 0.250 x 0.032 quick connect	<b>201</b> Roller 20,6 mm [0.81 in]		
<b>2</b>	75 g max.	<b>D</b> 1 A @ 125 Vac		<b>8</b> 85 °C 3,1 mm [0.12 in] mtg. holes	<b>E9</b> 0.250 x 0.032 quick connect spread	<b>207</b> Roller 34,0 mm [1.34 in]		
<b>3</b>	50 g max.	<b>E</b> 10 A @ 125 Vac		<b>9</b> 85 °C 2,9 mm [0.11 in] mtg. holes	<b>P02</b> Left angle PCB	<b>263</b> Sim. roller 32,8 mm [1.29 in]		
<b>4</b>	25 g max.	<b>F</b> 3 A @ 125 Vac		<b>0</b> 85 °C 3,1 mm [0.12 in] mtg. holes	<b>P07</b> SPNO on edge PCB	<b>266</b> Tall sim. roller 34,0 mm [1.34 in]		
<b>5</b>	15 g max.	<b>H</b> No rating		<b>A</b> 177 °C with 2,9 mm [0.11 in] mtg. holes	Formed quick-connect terminals available	<b>048</b> Straight 59,4 mm [2.34 in]		
<b>6</b>	6 oz to 14 oz max.	<b>K</b> 22 A @ 125 Vac				<b>636</b> Paddle 139,5 mm [5.5 in]		
<b>7</b>	8 oz max.	<b>S</b> 0.1 A @ 125 Vac					Formed levers available	
<b>8</b>	85 g max.	<b>V</b> 21 A @ 125 Vac						
<b>9</b>	300 g max.	<b>W</b> 15.1 A @ 125 Vac						
		<b>X</b> 6 A @ 125 Vac						
		<b>Z</b> 25 A @ 125 Vac						

ONLY

Not all combinations of model code are available.  
Please contact your Honeywell provider/representative for assistance.

### NOTES:

- <sup>1</sup> Not all possible combinations are available, these are only guidelines
- <sup>2</sup> Lever length measured from center of back mounting hole to end of straight lever or center of roller
- <sup>3</sup> All ratings are UL/CSA, and where noted are also European-rated ENEC
- <sup>4</sup> Consider the temperature required and the mounting hole size when making this selection
- <sup>5</sup> Electric ratings "W" x "X" only used with "A" Mounting Construction and vice versa
- <sup>6</sup> European ENEC rating requires Mounting Construction code "9" or "0"

# MICRO SWITCH™ Premium Miniature Basic Switches

**Table 1. Specifications**

Characteristic	Parameter
Circuitry	SPDT, SPNC, SPNO
Operating force	0,25 N to 3,9 N [15 g to 397 g]
Termination	quick connect; 4,75 mm x 0,51 mm [0.187 in x 0.02 in] quick connect: 6,35 mm x 0,81 mm [0.25 in x 0.032 in] PCB (printed circuit board)
Actuators	pin plunger, integral lever options, auxiliary lever options
Agency certification	CSA, ENEC, UL; RoHS compliant
Operating temperature	-40 °C to 85 °C [-40 °F to 185 °F], options for 175 °C [347 °F]
Mechanical life	up to 10 million cycles
Contact material	silver, gold plated, gold alloy
Housing material	high strength thermoplastic

**Table 2. Electrical Ratings**

Rating code	UL, CSA	ENEC <sup>3</sup>
A	5 A 125 Vac, 250 Vac, 277 Vac 1/10 HP 250 Vac	3 (1) A, 250 Vac <sup>2</sup>
B	11 A 1/3 HP 125 Vac, 250 Vac or 277 Vac 1/2 A 125 Vdc; 1/4 A 250 Vdc 4 A 125 Vac "L" <sup>1</sup>	10 (3) A, 250 Vac <sup>2</sup>
C	15.1 A 1/2 HP 125 Vac, 250 Vac or 277 Vac 1 /2A 125 Vdc 1/4 A 250 Vdc; 5 A 125 Vac "L" <sup>1</sup>	–
E	10 A 1/3 HP 125 Vac, 250 Vac or 277 Vac 1/2 A 125 Vdc 1/4 A 250 Vdc, 4 A 125 Vac "L" <sup>1</sup>	5 (2) A, 250 Vac <sup>2</sup>
F	3 A 125 Vac, 250 Vac, 277 Vac 1/10 HP 250 Vac	–
S	0.1 A, 125 Vac	1 (0.05) A, 250 Vac <sup>2</sup>
V	21 A 1 HP 125 Vac, 250 Vac, 277 Vac 2 HP 250 Vac, 277 Vac	16 (4) A, 250 Vac <sup>2</sup>
W	15.1 A 125 Vac, 250 Vac, 277 Vac	–
Z	25 A, 277 Vac 1 HP, 125 Vac; 2 HP, 250 Vac	20 (5) A, 250 Vac <sup>2</sup>

<sup>1</sup> Incandescent lamp rating

<sup>2</sup> XX(Y) - XX = max. rated resistive value in amps, and (Y) = max. rated inductive value in amps

<sup>3</sup> European ENEC rating requires Mounting Construction code "9" or "0". See page four, Mounting Construction column

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## PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings

O.F. • Operating force  
R.F. • Release force  
P.T. • Pretravel  
O.T. • Overtravel  
D.T. • Differential travel  
O.P. • Operating position

	Catalog Listing	Elect. Rating UL/CSA (CE)	Elect. Rating Spec. (page 4)	Contacts	O.F. max. newtons [grams]	O.P. nominal mm [inches]	P.T. max. mm [inches]	O.T. min. mm [inches]	D.T. mm [inches]
<b>Pin plunger</b> 	<b>V7-2S17DB</b>	0.1 A (---)	S	SPDT	0,79 [75]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1S17D8</b>	0.1 A (---)	S	SPDT	1,47 [150]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-5F17D8</b>	3 A (---)	F	SPDT	0,15 [15]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-4A17D8</b>	5 A (---)	A	SPDT	0,25 [25]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-3E17D8</b>	10 A (---)	E	SPDT	0,49 [50]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1B37D8</b>	11 A (---)	B	SPNC	1,47 [150]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-2B17D8</b>	11 A (---)	B	SPDT	0,74 [75]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-2B17E9</b>	11 A (---)	B	SPDT	0,74 [75]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-7B17D8</b>	11 A (---)	B	SPDT	2,22 [227]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1C17D8</b>	15 A (---)	C	SPDT	1,47 [150]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1C17E9</b>	15 A (---)	C	SPDT	1,47 [150]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1C37B8</b>	15 A (---)	C	SPNC	1,47 [150]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1V19E9</b>	21 A (16 A)	V	SPDT	1,72 [175]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1V29E9</b>	21 A (16 A)	V	SPNO	1,72 [175]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1V39E9</b>	21 A (16 A)	V	SPNC	1,72 [175]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1Z19E9</b>	25 A (20 A)	Z	SPDT	2,21 [225]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1Z29E9</b>	25 A (20 A)	Z	SPNO	2,21 [225]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
	<b>V7-1Z20E9*</b>	25 A (20 A)	Z	SPNO	2,21 [225]	14,7 [0.578]	1,19 [0.047]	1,27 [0.050]	0,05 - 0,25 [0.002-0.010]
<b>Lever 22,1 mm [0.87 in]</b> 	<b>V7-1C17D8-002</b>	15 A (---)	C	SPDT	1,57 [160]	15,2 [0.600]	1,52 [0.060]	0,89 [0.035]	0,36 [0.015] max.
	<b>V7-1C17E9-002</b>	15 A (---)	C	SPDT	1,57 [160]	15,2 [0.600]	1,52 [0.060]	0,89 [0.035]	0,36 [0.015] max.
	<b>V7-6C18D8-002*</b>	15 A (---)	C	SPDT	4,05 [413]	15,2 [0.600]	1,52 [0.060]	0,89 [0.035]	0,36 [0.015] max.

\*3,1 mm mtg holes

# MICRO SWITCH™ Premium Miniature Basic Switches

## PRODUCT SPECIFICATIONS AND LISTINGS

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O.F. • Operating force  
R.F. • Release force  
P.T. • Pretravel  
O.T. • Overtravel  
D.T. • Differential travel  
O.P. • Operating position

	Catalog Listing	Elect. Rating UL/CSA (CE)	Elect. Rating Spec. (page 4)	Contacts	O.F. max. newtons [grams]	O.P. nominal mm [inches]	P.T. max. mm [inches]	O.T. min. mm [inches]	D.T. mm [inches]
<b>Lever</b> <b>35,6 mm</b> <b>[1.40 in]</b> 	<b>V7-1S17D8-022</b>	0.1 A (---)	S	SPDT	0,83 [85]	15,2 [0.60]	3,04 [0.120]	2,16 [0.085]	0,76 [0.030] max.
	<b>V7-3S17D8-022</b>	0.1 A (---)	S	SPDT	0,29 [30]	15,2 [0.60]	3,04 [0.120]	2,16 [0.085]	0,76 [0.030] max.
	<b>V7-3S17E9-022</b>	0.1 A (---)	S	SPDT	0,29 [30]	15,2 [0.60]	3,04 [0.120]	2,16 [0.085]	0,76 [0.030] max.
	<b>V7-1B17D8-022</b>	11 A (---)	B	SPDT	0,80 [82]	15,3 [0.603]	3,04 [0.120]	1,70 [0.067]	0,69 [0.027] max.
	<b>V7-1B19D8-022</b>	11 A (10 A)	B	SPDT	0,80 [82]	15,3 [0.603]	3,25 [0.128]	1,78 [0.070]	0,71 [0.028] max.
	<b>V7-2B17D8-022</b>	11 A (---)	B	SPDT	0,40 [41]	15,3 [0.603]	3,04 [0.120]	1,70 [0.067]	0,71 [0.027] max.
	<b>V7-6B19E9-022</b>	11 A (10 A)	B	SPDT	2,11 [215]	15,2 [0.60]	3,25 [0.128]	1,35 [0.053]	0,76 [0.030] max.
<b>Lever</b> <b>59,4 mm</b> <b>[2.34 in]</b> 	<b>V7-3S17D8-048</b>	0.1 A (---)	S	SPDT	0,16 [16]	15,3 [0.603]	5,97 [0.235]	3,00 [0.118]	1,27 [0.050] max.
	<b>V7-2B17D8-048</b>	11 A (---)	B	SPDT	0,20 [20]	15,3 [0.603]	5,97 [0.235]	2,92 [0.115]	1,27 [0.050] max.
	<b>V7-1C17D8-048</b>	15 A (---)	C	SPDT	0,44 [45]	15,2 [0.603]	5,94 [0.234]	4,19 [0.165]	1,52 [0.060] max.
	<b>V7-1V19E9-048</b>	21 A (16 A)	V	SPDT	0,54 [55]	15,4 [0.605]	6,35 [0.250]	3,05 [0.120]	1,40 [0.055] max.
	<b>V7-9W1AE9-048**</b>	15 A (---)	W	SPDT	0,88 [90]	15,2 [0.603]	6,35 [0.250]	3,15 [0.124]	1,37 [0.054] max.
<b>Lever Sim.</b> <b>Roll 32,8 mm</b> <b>[1.29 in]</b> 	<b>V7-1S17D8-263</b>	0.1 A (---)	S	SPDT	0,88 [90]	18,54 [0.730]	2,79 [0.110]	1,90 [0.075]	0,76 [0.030] max.
	<b>V7-3E19E9-263</b>	10 A (5 A)	E	SPDT	0,32 [33]	18,54 [0.730]	2,54 [0.100]	1,90 [0.075]	0,76 [0.030] max.
	<b>V7-1B17D8-263</b>	11 A (---)	B	SPDT	0,88 [90]	18,54 [0.730]	2,79 [0.110]	1,52 [0.060]	0,76 [0.030] max.
	<b>V7-1C17D8-263</b>	15 A (---)	C	SPDT	0,89 [91]	18,54 [0.730]	2,79 [0.110]	1,55 [0.061]	0,61 [0.024] max.
	<b>V7-1V29E9-263</b>	21 A (16 A)	V	SPNO	1,08 [110]	18,49 [0.728]	2,90 [0.114]	1,62 [0.064]	0,64 [0.025] max.
	<b>V7-1Z10E9-263*</b>	25 A (20 A)	Z	SPDT	1,33 [136]	18,49 [0.728]	2,90 [0.114]	1,62 [0.064]	0,64 [0.025] max.
<b>Lever, Roller</b> <b>20,57 mm</b> <b>[0.81 in]</b> 	<b>V7-2S17D8-201</b>	0.1 A (---)	S	SPDT	0,88 [90]	20,57 [0.810]	1,19 [0.047]	1,02 [0.040]	0,38 [0.015] max.
	<b>V7-6B19E9-201</b>	11 A (10 A)	B	SPDT	4,50 [459]	20,52 [0.808]	1,42 [0.056]	0,86 [0.034]	0,33 [0.013] max.
	<b>V7-7B17D8-201</b>	11 A (---)	B	SPDT	2,78 [283]	20,52 [0.808]	1,42 [0.056]	0,86 [0.034]	0,33 [0.013] max.
	<b>V7-1C17D8-201</b>	15 A (---)	C	SPDT	1,72 [175]	20,57 [0.810]	1,19 [0.047]	0,81 [0.032]	0,30 [0.012] max.
<b>Lever, Roller</b> <b>34,04 mm</b> <b>[1.34 in]</b> 	<b>V7-1S17D8-207</b>	0.1 A (---)	S	SPDT	0,83 [85]	20,57 [0.810]	2,84 [0.112]	2,03 [0.080]	0,76 [0.030] max.
	<b>V7-2A17D8-207</b>	5 A (---)	A	SPDT	0,42 [43]	20,57 [0.810]	2,92 [0.115]	1,52 [0.060]	0,64 [0.025] max.
	<b>V7-1B17D8-207</b>	11 A (---)	B	SPDT	0,83 [85]	20,57 [0.810]	2,92 [0.115]	1,52 [0.060]	0,76 [0.030] max.
	<b>V7-1C17D8-207</b>	15 A (---)	C	SPDT	0,88 [90]	20,57 [0.810]	2,92 [0.115]	1,52 [0.060]	0,64 [0.025] max.
	<b>V7-1V19E9-207</b>	21 A (16 A)	V	SPDT	0,98 [100]	20,52 [0.808]	3,07 [0.121]	1,65 [0.065]	0,76 [0.030] max.

\*3,1 mm mtg holes

\*\* 177 °C [350 °F]

V7 Series

AVAILABLE TERMINALS

Quick Connect (QC)

**D8 Terminals:** 0.187 in wide x 0.020 in thick.

**E8 Terminals:** 0.187 in wide x 0.020 in thick.

**E9 Terminals:** 0.250 in wide x 0.032 in thick.

Printed Circuit Board (PO2)

These terminals interface with snap-on receptacles and other components from AMPMODU interconnection system.

STANDARD ACTUATOR OPTIONS

	<b>Straight Lever (-002)</b>	<b>Roller Lever (-201)</b>
	<b>Straight Lever (-022)</b>	<b>Roller Lever (-207)</b>
	<b>Straight Lever (-048)</b>	<b>Simulated Roller Lever (-263)</b>

ACCESSORIES

	Part Number	Description
	15PA177-V7	Insulator packet: 500 pieces of 0,46 mm [0.018 in] thick varnished fiberglass
	15PA260	Plunger boot seal: Elastomer, dust and splash resistant (Switch not included)