

MICRO SWITCH PREMIUM BASIC SWITCHES, V7 SERIES

TABLE 1. SPECIFICATIONS	
CHARACTERISTIC	PARAMETER
Circuitry	SPDT, SPNO, SPNC
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
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 (cycles)	up to 10 million cycles
Contact material	silver, gold plated, gold alloy
Housing material	glass-filled PCT high-performance polyester

TABLE 2. ELECTRICAL RATINGS		
RATING CODE	UL, CSA	ENEC ³
A	5 A 125 Vac, 250 Vac, 277 Vac 1/10 HP 250 Vac	3 (1) A, 250 Vac ²
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" ¹	10 (3) A, 250 Vac ²
C	15.1 A 1/2 HP 125 Vac, 250 Vac or 277 Vac 1/2 A 125 Vdc 1/4 A 250 Vdc; 5 A 125 Vac "L" ¹	–
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" ¹	5 (2) A, 250 Vac ²
F	3 A 125 Vac, 250 Vac, 277 Vac 1/10 HP 250 Vac	–
S	0.1 A, 125 Vac ⁴	1 (0.05) A, 250 Vac ²
V	21 A 1 HP 125 Vac, 250 Vac, 277 Vac 2 HP 250 Vac, 277 Vac	16 (4) A, 250 Vac ²
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 ²

¹Incandescent lamp rating

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

³European ENEC rating requires Mounting Construction code "9" or "0". See page 4, Mounting Construction column

⁴The 0.1A (S Code) design maintains ignition-protected components per UL NCKL2/8 certification for use in refrigeration and air-conditioning equipment

MICRO SWITCH PREMIUM BASIC SWITCHES, V7 SERIES

FIGURE 1. PRODUCT NOMENCLATURE

Switch Type ^A	Operating Force	Electrical Rating ^{C,F}		Circuitry Code	Mounting/ Construction ^{D,F}	Termination Style (Inches)	Lever Style ^B	Special Designator
		North America	Europe (ENEC)					
V7 Series Miniature								
1	150 g max.	A 5 A @ 125 Vac	3 A	1 SPDT	3 150 °C 2,9 mm [0.11 in] mtg. holes	D8 0.187 x 0.02 quick connect	002 Straight 22,1 mm [0.87 in]	Use only if this switch has a special feature. Could be any number.
1^N	175 g max.	B 11 A @ 125 Vac	10 A	2 SPNO	4 150 °C 3,1 mm [0.12 in] mtg. holes	E8 0.187 x 0.02 quick connect spread	022 Straight 35,6 mm [1.4 in]	
1^P	225 g max.	C^K 15 A @ 125 Vac	—	3 SPNC	7 85 °C 2,9 mm [0.11 in] mtg. holes	D9 0.250 x 0.032 quick connect	201 Roller 20,6 mm [0.81 in]	
2^G	75 g max.	D 1 A @ 125 Vac	1 A		8 85 °C 3,1 mm [0.12 in] mtg. holes	E9 0.250 x 0.032 quick connect spread	207 Roller 34,0 mm [1.34 in]	
3^H	50 g max.	E 10 A @ 125 Vac	5 A		9^F 85 °C 2,9 mm [0.11 in] mtg. holes	P02 Left angle PCB	263 Sim. roller 32,8 mm [1.29 in]	
4^I	25 g max.	F 3 A @ 125 Vac	—		0^F 85 °C 3,1 mm [0.12 in] mtg. holes	P07 SPNO on edge PCB	266 Tall sim. roller 34,0 mm [1.34 in]	
5^J	15 g max.	H No rating	—		A^E 177 °C with 2,9 mm [0.11 in] mtg. holes	Formed quick-connect terminals available	048 Straight 59,4 mm [2.34 in]	
6	6 oz to 14 oz max.	K 22 A @ 125 Vac	20 A				636 Paddle 139,5 mm [5.5 in]	
7	8 oz max.	S^L 0.1 A @ 125 Vac	1 A					
9	300 g max.	V 21 A @ 125 Vac	16 A					
		W^{E,M} 15.1 A @ 125 Vac	—					
		X^{E,K} 6 A @ 125 Vac	—					
		Z 25 A @ 125 Vac	20 A					

ONLY

NOTES:
^A Not all possible combinations are available, these are only guidelines
^B Lever length measured from center of back mounting hole to end of straight lever or center of roller
^C All ratings are UL/CSA, and where noted are also European-rated ENEC
^D Consider the temperature required and the mounting hole size when making this selection
^E Electric ratings "W" and "X" only used with "A" Mounting Construction and vice versa
^F European ENEC rating requires Mounting Construction code "9" or "0", and Electrical Ratings A,B,D,E,K,S,V,Z
^G Not applicable for Electrical Ratings C,K,V,W,X,Z
^H Not applicable for Electrical Ratings B,C,K,V,W,X,Z
^I Applies to Electrical Ratings A,D,F,S only
^J Applies to Electrical Ratings D,F,S only
^K Applies to 150 g Operate Force and higher
^L Applies to 15 g to 150 g Operate Force
^M Applies to only 300 g Operate Force
^N Applies to only Electrical Rating V
^P Applies to only Electrical Ratings K,Z

Formed levers available

MICRO SWITCH PREMIUM BASIC SWITCHES, V7 SERIES

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

PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings






	Catalog Listing	Elect. Rating UL/CSA (CE)	Elect. Rating Spec. (page 2)	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]
	V7-2S17DB	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]
	V7-1S17D8	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]
	V7-5F17D8	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]
	V7-4A17D8	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]
	V7-3E17D8	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]
	V7-1B37D8	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]
	V7-2B17D8	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]
	V7-2B17E9	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]
Pin plunger	V7-7B17D8	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]
	V7-1C17D8	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]
	V7-1C17E9	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]
	V7-1C37D8	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]
	V7-1V19E9	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]
	V7-1V29E9	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]
	V7-1V39E9	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]
	V7-1Z19E9	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]
	V7-1Z29E9	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]
	V7-1Z20E9*	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]
Lever 22,1 mm [0.87 in]	V7-1C17D8-002	15 A (---)	C	SPDT	1,57 [160]	15,2 [0.600]	1,52 [0.060]	0,89 [0.035]	0,36 [0.015] max.
	V7-1C17E9-002	15 A (---)	C	SPDT	1,57 [160]	15,2 [0.600]	1,52 [0.060]	0,89 [0.035]	0,36 [0.015] max.
	V7-6C18D8-002*	15 A (---)	C	SPDT	4,05 [413]	15,2 [0.600]	1,52 [0.060]	0,89 [0.035]	0,36 [0.015] max.

MICRO SWITCH PREMIUM BASIC SWITCHES, V7 SERIES

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

PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings

	Catalog Listing	Elect. Rating UL/CSA (CE)	Elect. Rating Spec. (page 2)	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]
Lever 35,6 mm [1.40 in] 	V7-1S17D8-022	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.
	V7-3S17D8-022	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.
	V7-3S17E9-022	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.
	V7-1B17D8-022	11 A (---)	B	SPDT	0,80 [82]	15,3 [0.603]	3,04 [0.120]	1,70 [0.067]	0,69 [0.027] max.
	V7-1B19D8-022	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.
	V7-2B17D8-022	11 A (---)	B	SPDT	0,40 [41]	15,3 [0.603]	3,04 [0.120]	1,70 [0.067]	0,71 [0.027] max.
	V7-6B19E9-022	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.
Lever 59,4 mm [2.34 in] 	V7-3S17D8-048	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.
	V7-2B17D8-048	11 A (---)	B	SPDT	0,20 [20]	15,3 [0.603]	5,97 [0.235]	2,92 [0.115]	1,27 [0.050] max.
	V7-1C17D8-048	15 A (---)	C	SPDT	0,44 [45]	15,2 [0.603]	5,94 [0.234]	4,19 [0.165]	1,52 [0.060] max.
	V7-1V19E9-048	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.
	V7-9W1AE9-048**	15 A (---)	W	SPDT	0,88 [90]	15,2 [0.603]	6,35 [0.250]	3,15 [0.124]	1,37 [0.054] max.
Lever Sim. Roll 32,8 mm [1.29 in] 	V7-1S17D8-263	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.
	V7-3E19E9-263	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.
	V7-1B17D8-263	11 A (---)	B	SPDT	0,88 [90]	18,54 [0.730]	2,79 [0.110]	1,52 [0.060]	0,76 [0.030] max.
	V7-1C17D8-263	15 A (---)	C	SPDT	0,89 [91]	18,54 [0.730]	2,79 [0.110]	1,55 [0.061]	0,61 [0.024] max.
	V7-1V29E9-263	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.
	V7-1Z10E9-263*	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.
Lever, Roller 20,57 mm [0.81 in] 	V7-2S17D8-201	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.
	V7-6B19E9-201	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.
	V7-7B17D8-201	11 A (---)	B	SPDT	2,78 [283]	20,52 [0.808]	1,42 [0.056]	0,86 [0.034]	0,33 [0.013] max.
	V7-1C17D8-201	15 A (---)	C	SPDT	1,72 [175]	20,57 [0.810]	1,19 [0.047]	0,81 [0.032]	0,30 [0.012] max.
Lever, Roller 34,04 mm [1.34 in] 	V7-1S17D8-207	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.
	V7-2A17D8-207	5 A (---)	A	SPDT	0,42 [43]	20,57 [0.810]	2,92 [0.115]	1,52 [0.060]	0,64 [0.025] max.
	V7-1B17D8-207	11 A (---)	B	SPDT	0,83 [85]	20,57 [0.810]	2,92 [0.115]	1,52 [0.060]	0,76 [0.030] max.
	V7-1C17D8-207	15 A (---)	C	SPDT	0,88 [90]	20,57 [0.810]	2,92 [0.115]	1,52 [0.060]	0,64 [0.025] max.
	V7-1V19E9-207	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.

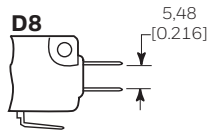
*3,1 mm mtg holes

** 177 °C [350 °F]

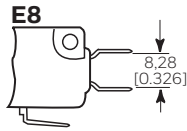
MICRO SWITCH PREMIUM BASIC SWITCHES, V7 SERIES

AVAILABLE TERMINALS

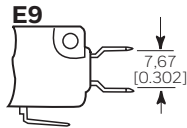
Quick Connect (QC)



D8 Terminals: 0.187 in wide x 0.020 in thick.

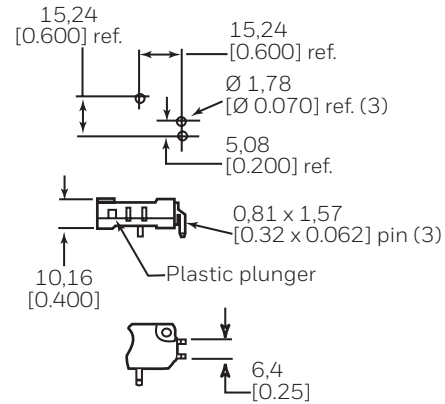


E8 Terminals: 0.187 in wide x 0.020 in thick.



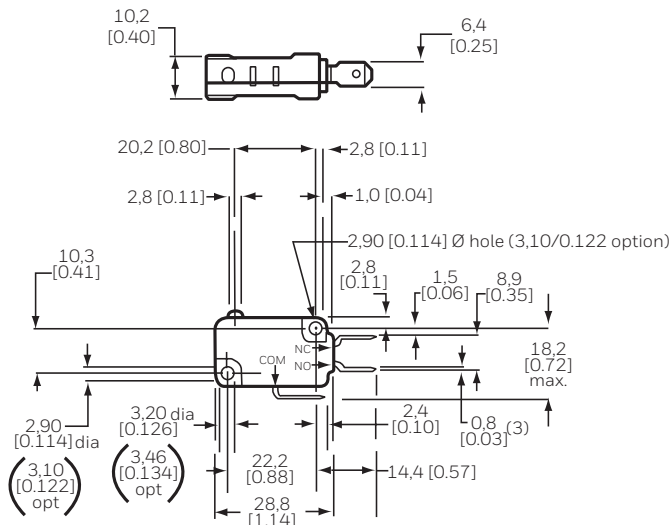
E9 Terminals: 0.250 in wide x 0.032 in thick.

Printed Circuit Board (PO2)

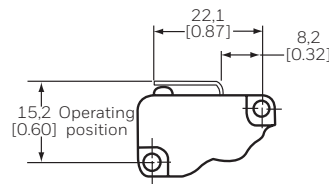


These terminals interface with snap-on receptacles and other components from AMPMODU interconnection system.

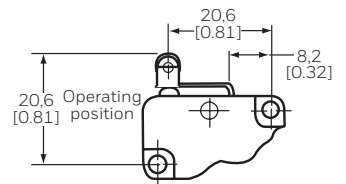
STANDARD ACTUATOR OPTIONS



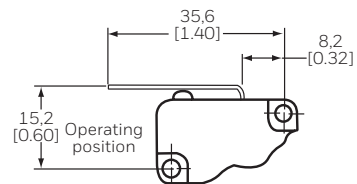
Straight Lever (-002)



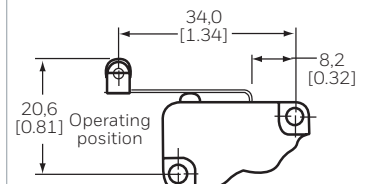
Roller Lever (-201)



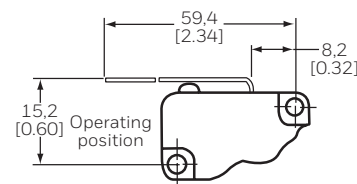
Straight Lever (-022)



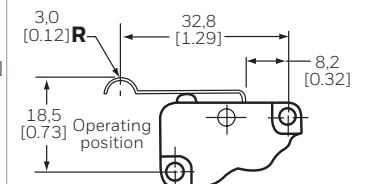
Roller Lever (-207)





Straight Lever (-048)



Simulated Roller Lever (-263)



ACCESSORIES

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

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective.

The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

FOR MORE INFORMATION

Honeywell Sensing and Internet of Things services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit sensing.honeywell.com or call:

International +815 618 3231
USA/Canada +302 613 44915

Honeywell Sensing and Internet of Things

9680 Old Bailes Road
Fort Mill, SC 29707
honeywell.com

004987-4-EN | 4 | 12/19
© 2019 Honeywell International Inc. All rights reserved.

⚠ WARNING PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

⚠ WARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Honeywell

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Honeywell:

[V7-1A17D8](#) [V7-1A17D8-048](#) [V7-1A17D8-057](#) [V7-1A27D8-207](#) [V7-1A27D8-636](#) [V7-1B10E9-207](#) [V7-1B17D8](#) [V7-1B17D8-022](#) [V7-1B17D8-048](#) [V7-1B17D8-048-S](#) [V7-1B17D8-122](#) [V7-1B17D8-263](#) [V7-1B19D8-022](#) [V7-1B19E9](#) [V7-1B27D8-048](#) [V7-1B29P07-022](#) [V7-1B37D8](#) [V7-1B37D8-263](#) [V7-1C17D8](#) [V7-1C17D8-002](#) [V7-1C17D8-022](#) [V7-1C17D8-048](#) [V7-1C17D8-201](#) [V7-1C17D8-207](#) [V7-1C17D8-263](#) [V7-1C17E9](#) [V7-1C17E9-002](#) [V7-1C17E9-201](#) [V7-1C17E9-207](#) [V7-1C17E9-292](#) [V7-1C18E9](#) [V7-1C18E9-022](#) [V7-1C27D855-002](#) [V7-1C27E9](#) [V7-1C27E9-263](#) [V7-1C27E9-292](#) [V7-1C28E9](#) [V7-1C37D8](#) [V7-1C37D855-002](#) [V7-1C39E9](#) [V7-1D10D8](#) [V7-1E10D8](#) [V7-1K20E9](#) [V7-1K29E9](#) [V7-1S17D8](#) [V7-1S17D8-022](#) [V7-1S17D8-201](#) [V7-1S17D8-207](#) [V7-1S17D8-263](#) [V7-1S19D8-369](#) [V7-1V19E9](#) [V7-1V19E9-048](#) [V7-1V19E9-207](#) [V7-1V19E9-269](#) [V7-1V20E94](#) [V7-1V29E9](#) [V7-1V29E9-263](#) [V7-1V39E9](#) [V7-1X1AD9C1](#) [V7-1X2AD8-048](#) [V7-1X2AE9-048](#) [V7-1Z10E9](#) [V7-1Z19E9](#) [V7-1Z20E9](#) [V7-1Z29D94](#) [V7-1Z29E9](#) [V7-1Z39E9](#) [V7-2A17D8-022](#) [V7-2A17D8-207](#) [V7-2A17E9](#) [V7-2A27D8](#) [V7-2A27E9](#) [V7-2B17D8](#) [V7-2B17D8-022](#) [V7-2B17D8-048](#) [V7-2B17D8-162](#) [V7-2B17D8-201](#) [V7-2B17D8-207](#) [V7-2B17E9](#) [V7-2B17P02](#) [V7-2B19E9-048](#) [V7-2B27D8-022](#) [V7-2B27P07](#) [V7-2B29D8](#) [V7-2B29E9](#) [V7-2B29E9-048](#) [V7-2E17E9-366](#) [V7-2E17E9-420](#) [V7-2S17D8](#) [V7-2S17D8-022](#) [V7-2S17D8-201](#) [V7-2S17E9-420](#) [V7-3A17D8](#) [V7-3E17D8](#) [V7-3E17E9](#) [V7-3E17E9-022](#) [V7-3E19E9](#) [V7-3E27E9](#) [V7-3E29E9](#) [V7-3S17D8-000-3](#)