

HIGH CURRENT SNAP ACTION SERIES (HCP)

ALCOSWITCH

INTRODUCTION

TE Connectivity (TE)'s Alcoswitch HCP series offers more flexibility through various combinations of lever styles in a higher current rated switch. The new current rating options include 10, 16, 20 and 26 amp versions. These switches are designed to convert a mechanical action in an electrical one. This makes them very suitable for applications such as home appliances and factory automation as well as other domestic and industrial uses.

TE's Alcoswitch snap action switches are designed to industry standard sizes, making them extremely suitable for use in existing designs. They are available with various contact styles to aid flexibility.

APPLICATIONS

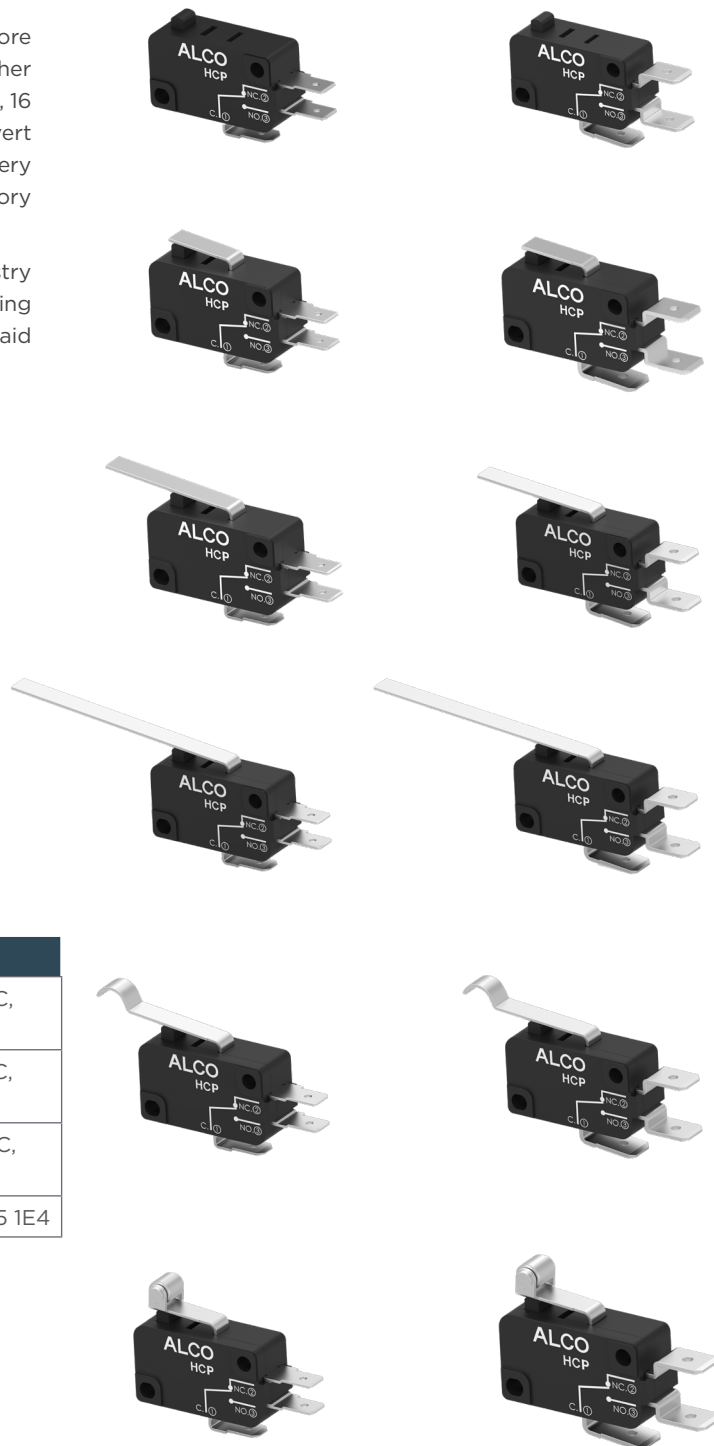
- Industry common size
- Home appliances
- White goods
- Automation and process control
- Security
- Electronic equipment

FEATURES

- Solder terminals.
- Highly reliable with long operating life.

APPROVALS

| Model Name | UL, cUL | ENEC |
|------------|-----------------------------|-----------------------------------|
| HCP-10 | 10RA 125/250VAC μT85 5E4 | 10(4)A 125/250VAC, μ40T125 1E4 |
| HCP-16 | 16RA 125/250VAC μT85 5E4 | 16(4)A 125/250VAC, μ40T125 1E4 |
| HCP-20H | 20RA 125/250VAC μT85 2E4 | 20(4)A 125/250VAC, μ40T125 1E4 |
| HCP-26Q | None | 26A 125/250VAC, μT85 1E4 |



ALCOSWITCH HCP SERIES

HIGH CURRENT SNAP ACTION SWITCHES

PRODUCT SPECIFICATION

| | |
|---|---|
| Contact resistance (Initial) | Max. 300 mΩ Measured by ohm meter - open voltage < 1VDC, driver current -100 mA |
| Insulation resistance (at 500 VDC / minute) | Min. 100 MΩ |
| Dielectric strength | Min. 500VAC (50-60HZ)/minute between Live parts. Min. 1500VAC (50-60HZ)/minute between Live parts and dead metal parts |
| Mechanical life | Min. 10,000,000 Operations |
| Electrical life | Min. 10,000 Operations |
| Mechanical operating frequency | 120 operations per minute |
| Vibration | 10-55Hz, displacement 0.75 mm (p-p) |
| Insulation resistance | 100MΩ @500 VDC, 100mA, 1 minute |
| Operating temperature | -40°C to 125°C (with no icing) |

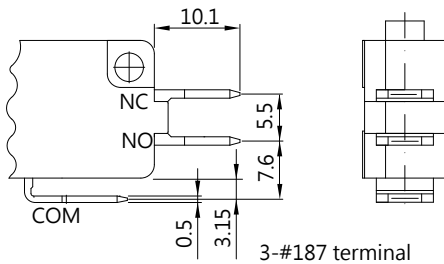
ELECTRICAL RATINGS

| | | |
|---------------------------|-----------------------------------|-------|
| Current rating | Refer. TE smart part number table | |
| Rated operational voltage | 125 V | 250 V |

TERMINAL STYLES

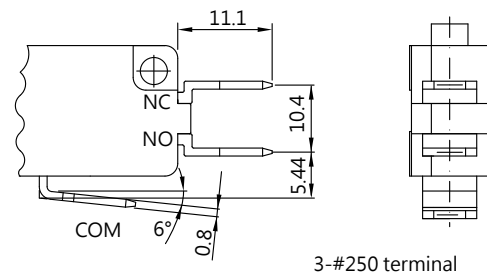
D TYPE

187 Series, straight (0.5t)

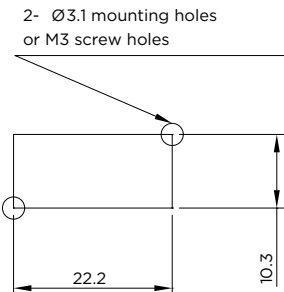


E TYPE

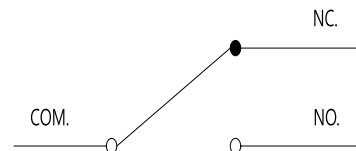
250 Series, dog-leg (0.8t)



MOUNTING HOLE SHAPE



CONTACT CONFIGURATION



Notes:

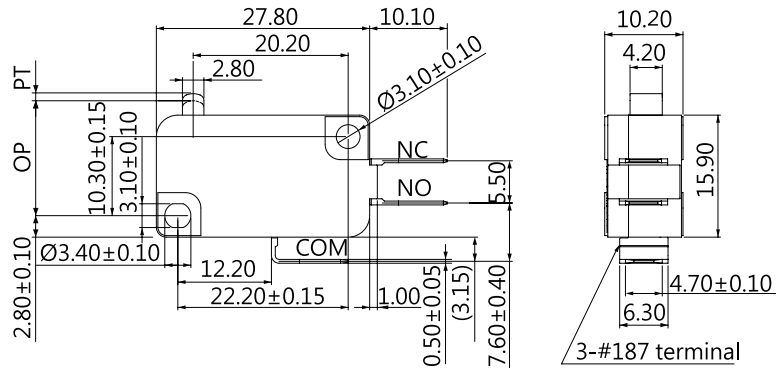
1. Dimensions in millimetres unless otherwise specified
2. Dimensions shown for reference purposes only. Specifications subject to change.

ALCOSWITCH HCP SERIES

HIGH CURRENT SNAP ACTION SWITCHES

DIMENSIONS (UNIT: mm)

Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.



OPERATING CHARACTERISTICS

| Switch Type | Part Suffix | Operating Force Max. OF (gf) | | | | Operating Position OP (mm) | Pre-Travel Max. PT Max. (mm) | Over-Travel Min. OT Min. (mm) | Movement Differential Max. MD Max. (mm) |
|--------------|-------------|------------------------------|-----|-----|-----|----------------------------|------------------------------|-------------------------------|---|
| | | L | S | H | Q | | | | |
| HCP□□DTD0□04 | | 150 | 200 | | 350 | 14.7 \pm 0.5 | 1.9 | 1.0 | 0.4 |
| HCP□□DTD1□04 | | 150 | 190 | 290 | 340 | 15.3 \pm 0.5 | 2.8 | 1.0 | 0.5 |
| HCP□□DTD2□04 | | 90 | 110 | 160 | 185 | 15.3 \pm 1.1 | 5.9 | 1.2 | 1.0 |
| HCP□□DTD3□04 | | 50 | 65 | 95 | 110 | 15.3 \pm 2.4 | 9.3 | - | 2.1 |
| HCP□□DTD4□04 | | 90 | 120 | 175 | 205 | 18.7 \pm 1.3 | 5.5 | 1.9 | 1.1 |
| HCP□□DTD5□04 | | 170 | 220 | 310 | 375 | 20.7 \pm 0.6 | 2.7 | 1.1 | 0.45 |

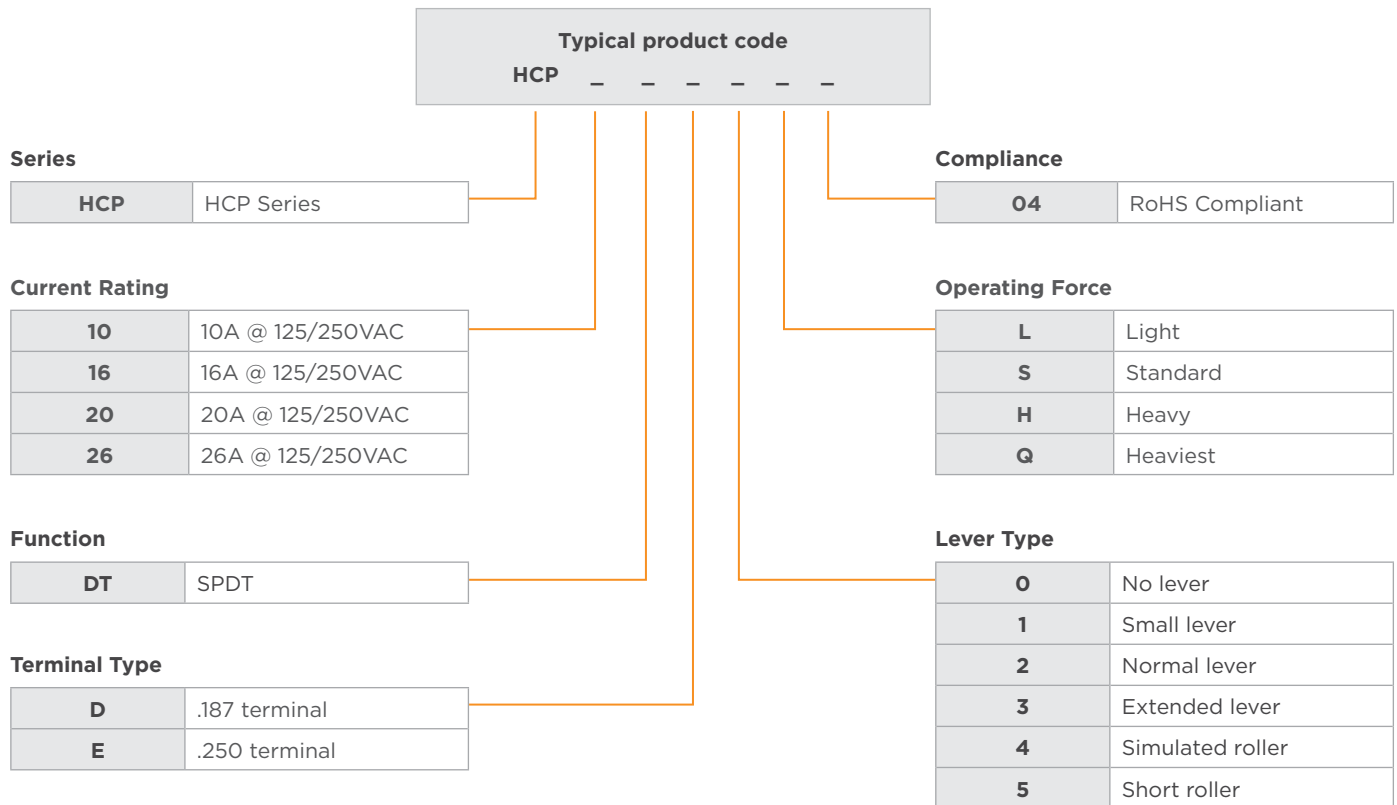
Notes:

1. Dimensions in millimetres unless otherwise specified
2. Dimensions shown for reference purposes only. Specifications subject to change.

ALCOSWITCH HCP SERIES

HIGH CURRENT SNAP ACTION SWITCHES

PRODUCT CODE STRUCTURE



NO LEVER



SMALL LEVER



NORMAL LEVER



EXTENDED LEVER



SIMULATED ROLLER



SHORT ROLLER

ALCOSWITCH HCP SERIES

HIGH CURRENT SNAP ACTION SWITCHES

PRODUCT INFORMATION

| SI No. | TE Smart Number | Description | TE Part Number |
|--------|-----------------|--|----------------|
| 1 | HCPI0DTD0S04 | HCP Series 10A, Standard Force, 0.187 Terminal, No Lever | 2439028-1 |
| 2 | HCPI0DTE0S04 | HCP Series 10A, Standard Force, 0.250 Terminal, No Lever | 2439028-2 |
| 3 | HCPI0DTD0L04 | HCP Series 10A, Light Force, 0.187 Terminal, No Lever | 2439028-3 |
| 4 | HCPI0DTE0L04 | HCP Series 10A, Light Force, 0.250 Terminal, No Lever | 2439028-4 |
| 5 | HCPI0DTD1S04 | HCP Series 10A, Standard Force, 0.187 Terminal, Small Lever | 2439028-5 |
| 6 | HCPI0DTE1S04 | HCP Series 10A, Standard Force, 0.250 Terminal, Small Lever | 2439028-6 |
| 7 | HCPI0DTD1L04 | HCP Series 10A, Light Force, 0.187 Terminal, Small Lever | 2439028-7 |
| 8 | HCPI0DTE1L04 | HCP Series 10A, Light Force, 0.250 Terminal, Small Lever | 2439028-8 |
| 9 | HCPI0DTD2S04 | HCP Series 10A, Standard Force, 0.187 Terminal, Normal Lever | 2439028-9 |
| 10 | HCPI0DTE2S04 | HCP Series 10A, Standard Force, 0.250 Terminal, Normal Lever | 1-2439028-0 |
| 11 | HCPI0DTD2L04 | HCP Series 10A, Light Force, 0.187 Terminal, Normal Lever | 1-2439028-1 |
| 12 | HCPI0DTE2L04 | HCP Series 10A, Light Force, 0.250 Terminal, Normal Lever | 1-2439028-2 |
| 13 | HCPI0DTD3S04 | HCP Series 10A, Standard Force, 0.187 Terminal, Extended Lever | 1-2439028-3 |
| 14 | HCPI0DTE3S04 | HCP Series 10A, Standard Force, 0.250 Terminal, Extended Lever | 1-2439028-4 |
| 15 | HCPI0DTD3L04 | HCP Series 10A, Light Force, 0.187 Terminal, Extended Lever | 1-2439028-5 |
| 16 | HCPI0DTE3L04 | HCP Series 10A, Light Force, 0.250 Terminal, Extended Lever | 1-2439028-6 |
| 17 | HCPI0DTD4S04 | HCP Series 10A, Standard Force, 0.187 Terminal, Simulated Roller | 1-2439028-7 |
| 18 | HCPI0DTE4S04 | HCP Series 10A, Standard Force, 0.250 Terminal, Simulated Roller | 1-2439028-8 |
| 19 | HCPI0DTD4L04 | HCP Series 10A, Light Force, 0.187 Terminal, Simulated Roller | 1-2439028-9 |
| 20 | HCPI0DTE4L04 | HCP Series 10A, Light Force, 0.250 Terminal, Simulated Roller | 2-2439028-0 |
| 21 | HCPI0DTD5S04 | HCP Series 10A, Standard Force, 0.187 Terminal, Short Roller | 2-2439028-1 |
| 22 | HCPI0DTE5S04 | HCP Series 10A, Standard Force, 0.250 Terminal, Short Roller | 2-2439028-2 |
| 23 | HCPI0DTD5L04 | HCP Series 10A, Light Force, 0.187 Terminal, Short Roller | 2-2439028-3 |
| 24 | HCPI0DTE5L04 | HCP Series 10A, Light Force, 0.250 Terminal, Short Roller | 2-2439028-4 |
| 25 | HCPI6DTD0S04 | HCP Series 16A, Standard Force, 0.187 Terminal, No Lever | 2435260-1 |
| 26 | HCPI6DTE0S04 | HCP Series 16A, Standard Force, 0.250 Terminal, No Lever | 2435260-2 |
| 27 | HCPI6DTD0L04 | HCP Series 16A, Light Force, 0.187 Terminal, No Lever | 2435260-3 |
| 28 | HCPI6DTE0L04 | HCP Series 16A, Light Force, 0.250 Terminal, No Lever | 2435260-4 |
| 29 | HCPI6DTD1S04 | HCP Series 16A, Standard Force, 0.187 Terminal, Small Lever | 2435260-5 |
| 30 | HCPI6DTE1S04 | HCP Series 16A, Standard Force, 0.250 Terminal, Small Lever | 2435260-6 |
| 31 | HCPI6DTD1L04 | HCP Series 16A, Light Force, 0.187 Terminal, Small Lever | 2435260-7 |
| 32 | HCPI6DTE1L04 | HCP Series 16A, Light Force, 0.250 Terminal, Small Lever | 2435260-8 |
| 33 | HCPI6DTD2S04 | HCP Series 16A, Standard Force, 0.187 Terminal, Normal Lever | 2435260-9 |
| 34 | HCPI6DTE2S04 | HCP Series 16A, Standard Force, 0.250 Terminal, Normal Lever | 1-2435260-0 |
| 35 | HCPI6DTD2L04 | HCP Series 16A, Light Force, 0.187 Terminal, Normal Lever | 1-2435260-1 |
| 36 | HCPI6DTE2L04 | HCP Series 16A, Light Force, 0.250 Terminal, Normal Lever | 1-2435260-2 |
| 37 | HCPI6DTD3S04 | HCP Series 16A, Standard Force, 0.187 Terminal, Extended Lever | 1-2435260-3 |
| 38 | HCPI6DTE3S04 | HCP Series 16A, Standard Force, 0.250 Terminal, Extended Lever | 1-2435260-4 |
| 39 | HCPI6DTD3L04 | HCP Series 16A, Light Force, 0.187 Terminal, Extended Lever | 1-2435260-5 |
| 40 | HCPI6DTE3L04 | HCP Series 16A, Light Force, 0.250 Terminal, Extended Lever | 1-2435260-6 |

| SI No. | TE Smart Number | Description | TE Part Number |
|--------|-----------------|--|----------------|
| 41 | HCP16DTD4S04 | HCP Series 16A, Standard Force, 0.187 Terminal, Simulated Roller | 1-2435260-7 |
| 42 | HCP16DTE4S04 | HCP Series 16A, Standard Force, 0.250 Terminal, Simulated Roller | 1-2435260-8 |
| 43 | HCP16DTD4L04 | HCP Series 16A, Light Force, 0.187 Terminal, Simulated Roller | 1-2435260-9 |
| 44 | HCP16DTE4L04 | HCP Series 16A, Light Force, 0.250 Terminal, Simulated Roller | 2-2435260-0 |
| 45 | HCP16DTD5S04 | HCP Series 16A, Standard Force, 0.187 Terminal, Short Roller | 2-2435260-1 |
| 46 | HCP16DTE5S04 | HCP Series 16A, Standard Force, 0.250 Terminal, Short Roller | 2-2435260-2 |
| 47 | HCP16DTD5L04 | HCP Series 16A, Light Force, 0.187 Terminal, Short Roller | 2-2435260-3 |
| 48 | HCP16DTE5L04 | HCP Series 16A, Light Force, 0.250 Terminal, Short Roller | 2-2435260-4 |
| 49 | HCP20DTD0H04 | HCP Series 20A, Heavy Force, 0.187 Terminal, No Lever | 2435261-1 |
| 50 | HCP20DTE0H04 | HCP Series 20A, Heavy Force, 0.250 Terminal, No Lever | 2435261-2 |
| 51 | HCP20DTD1H04 | HCP Series 20A, Heavy Force, 0.187 Terminal, Small Lever | 2435261-3 |
| 52 | HCP20DTE1H04 | HCP Series 20A, Heavy Force, 0.250 Terminal, Small Lever | 2435261-4 |
| 53 | HCP20DTD2H04 | HCP Series 20A, Heavy Force, 0.187 Terminal, Normal Lever | 2435261-5 |
| 54 | HCP20DTE2H04 | HCP Series 20A, Heavy Force, 0.250 Terminal, Normal Lever | 2435261-6 |
| 55 | HCP20DTD3H04 | HCP Series 20A, Heavy Force, 0.187 Terminal, Extended Lever | 2435261-7 |
| 56 | HCP20DTE3H04 | HCP Series 20A, Heavy Force, 0.250 Terminal, Extended Lever | 2435261-8 |
| 57 | HCP20DTD4H04 | HCP Series 20A, Heavy Force, 0.187 Terminal, Simulated Roller | 2435261-9 |
| 58 | HCP20DTE4H04 | HCP Series 20A, Heavy Force, 0.250 Terminal, Simulated Roller | 1-2435261-0 |
| 59 | HCP20DTD5H04 | HCP Series 20A, Heavy Force, 0.187 Terminal, Short Roller | 1-2435261-1 |
| 60 | HCP20DTE5H04 | HCP Series 20A, Heavy Force, 0.250 Terminal, Short Roller | 1-2435261-2 |
| 61 | HCP26DTD0Q04 | HCP Series 26A, Heaviest Force, 0.187 Terminal, No Lever | 2435262-1 |
| 62 | HCP26DTE0Q04 | HCP Series 26A, Heaviest Force, 0.250 Terminal, No Lever | 2435262-2 |
| 63 | HCP26DTD1Q04 | HCP Series 26A, Heaviest Force, 0.187 Terminal, Small Lever | 2435262-3 |
| 64 | HCP26DTE1Q04 | HCP Series 26A, Heaviest Force, 0.250 Terminal, Small Lever | 2435262-4 |
| 65 | HCP26DTD2Q04 | HCP Series 26A, Heaviest Force, 0.187 Terminal, NormalLever | 2435262-5 |
| 66 | HCP26DTE2Q04 | HCP Series 26A, Heaviest Force, 0.250 Terminal, Normal Lever | 2435262-6 |
| 67 | HCP26DTD3Q04 | HCP Series 26A, Heaviest Force, 0.187 Terminal, Extended Lever | 2435262-7 |
| 68 | HCP26DTE3Q04 | HCP Series 26A, Heaviest Force, 0.250 Terminal, Extended Lever | 2435262-8 |
| 69 | HCP26DTD4Q04 | HCP Series 26A, Heaviest Force, 0.187 Terminal, Simulated Roller | 2435262-9 |
| 70 | HCP26DTE4Q04 | HCP Series 26A, Heaviest Force, 0.250 Terminal, Simulated Roller | 1-2435262-0 |
| 71 | HCP26DTD5Q04 | HCP Series 26A, Heaviest Force, 0.187 Terminal, Short Roller | 1-2435262-1 |
| 72 | HCP26DTE5Q04 | HCP Series 26A, Heaviest Force, 0.250 Terminal, Short Roller | 1-2435262-2 |

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