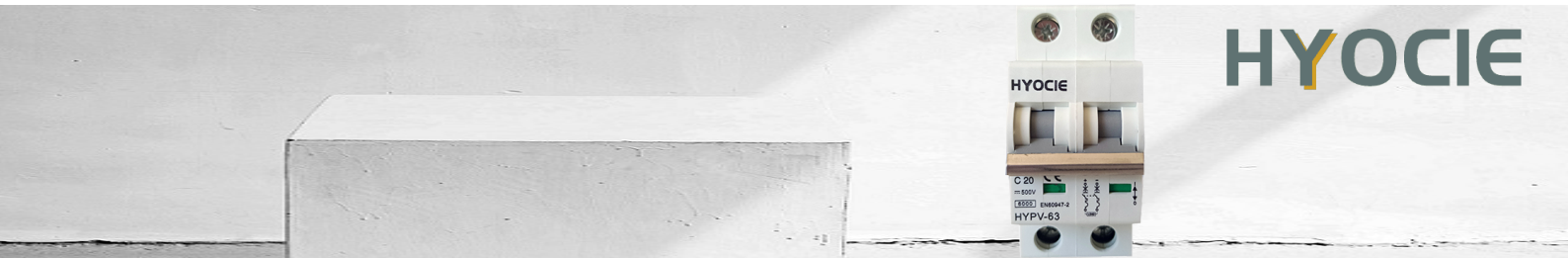


DC Miniature Circuit Breaker



HYPV-63

DC MCB

DC MCB supplementary protectors are designed to provide overcurrent protection within appliances or electrical equipment, where a branch circuit protection is already provided or not required. Devices are designed for direct current (DC) control circuit applications.

| HYPV-63 | | | | |
|------------------------------------------|---------------------------------------------|------|------|-------|
| Installation Environment | No obvious shock and vibration | | | |
| Pole | 1P | 2P | 3P | 4P |
| Rated Operating Voltage (VDC) | 250V | 500V | 750V | 1000V |
| Rated Insulation Voltage U_i (V DC) | 1200V | | | |
| Rated Current I_n (A) | 1, 2, 3, 6, 10, 16, 20, 25, 32, 40, 50, 63A | | | |
| Ambient Temperature | -35°C ~+70°C | | | |
| Ultimate Breaking Capacity I_{cu} (kA) | 6 | | | |
| Relative Humidity | ≤ 95% | | | |
| Curve Type | C(8~12) I_n | | | |
| Pollution Level | Class 2 | | | |
| Electrical Life (times) | 8000 | | | |
| Mechanical Life (times) | 20000 | | | |
| Trip Type | Thermal-magnetic | | | |

-Consult sales for other parameters, please.

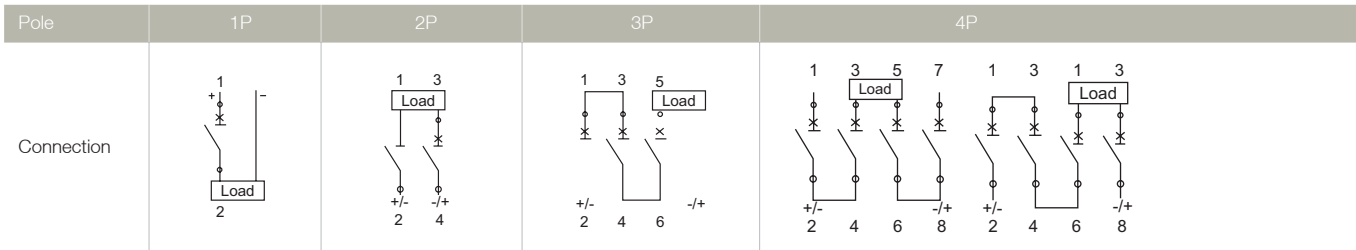
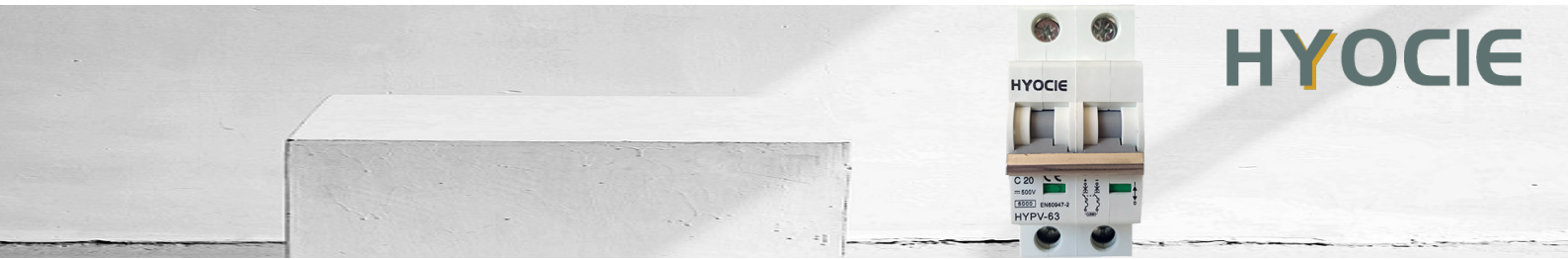
Over current tripping characteristic

| Test | Test Current | Initial State | Limited Time | Expected Result |
|------|--------------|---------------------------|--------------|-----------------|
| a | 1.05 I_n | Cold state | t 1h | Non-tripping |
| b | 1.3 I_n | Right after test number a | t<1 h | Tripping |
| c | 7 I_n | Cold state | t≤st | Non-tripping |
| d | 10 I_n | Cold state | 0.1s | Tripping |

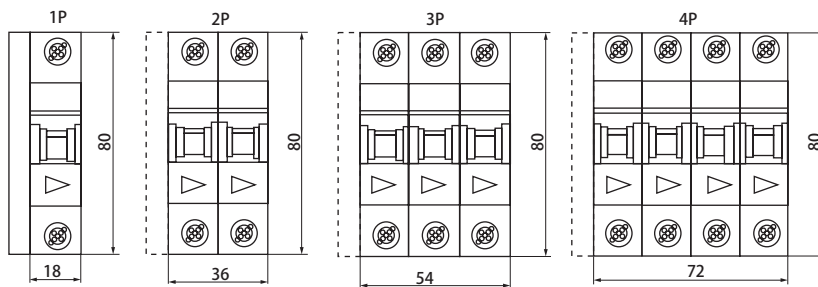
Over current tripping characteristic

| Fixed current(A) Rated Current (A) | Temperature | | | | | | | | | | | | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|----|-------|-------|-------|-------|--|
| | -35 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | |
| 3A | 3.9 | 3.78 | 3.69 | 3.57 | 3.42 | 3.3 | 3.12 | 3 | 2.88 | 2.79 | 2.64 | 2.49 | |
| 6A | 7.8 | 7.56 | 7.38 | 7.14 | 6.84 | 6.6 | 6.24 | 6 | 5.76 | 5.64 | 5.28 | 4.98 | |
| 10A | 13.2 | 12.7 | 12.5 | 12 | 11.5 | 11.1 | 10.6 | 10 | 9.6 | 9.3 | 8.9 | 8.4 | |
| 16A | 21.12 | 20.48 | 20 | 19.2 | 18.4 | 17.76 | 16.96 | 16 | 15.36 | 14.88 | 14.24 | 13.44 | |
| 20A | 26.4 | 26.4 | 25 | 24 | 23 | 22.2 | 21.2 | 20 | 19.2 | 18.6 | 17.8 | 16.8 | |
| 25A | 33 | 32 | 31.25 | 30 | 28.75 | 27.75 | 26.5 | 25 | 24 | 23.25 | 22.25 | 21 | |
| 32A | 42.56 | 41.28 | 40 | 38.72 | 37.12 | 35.52 | 33.93 | 32 | 30.72 | 29.76 | 28.16 | 26.88 | |
| 40A | 53.2 | 51.2 | 50 | 48 | 46.4 | 44.8 | 42.4 | 40 | 38.4 | 37.2 | 35.6 | 33.6 | |
| 50A | 67 | 65.5 | 63 | 60.5 | 58 | 56 | 53 | 50 | 48 | 46.5 | 44 | 41.5 | |
| 63A | 83.79 | 81.9 | 80.01 | 76.86 | 73.71 | 70.56 | 66.78 | 63 | 60.48 | 58.9 | 55.44 | 52.29 | |

DC Miniature Circuit Breaker



Dimension:



Over current tripping characteristic

