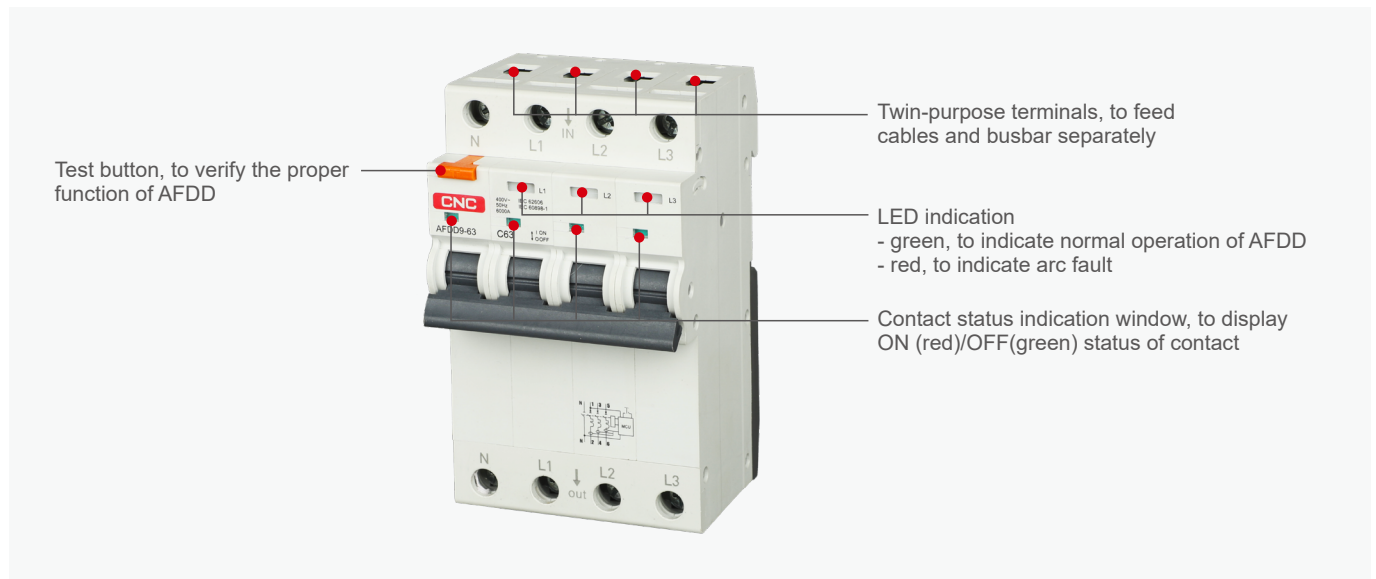


## Final Distribution

# AFDD9-63 Arc Fault Detection Device ( AFDD+MCB )



## General

The AFDD9-63 three - phase four - wire Arc Fault Detection Device is assembled from a miniature circuit breaker(MCB) and an arc - detection module. The AFDD9-63 Arc Fault Detection Device has functions of short - circuit protection, over - current protection, and arc - fault protection. It can simultaneously detect the A - phase, B - phase, and C - phase fault arcs in three - phase circuits, and can also detect the fault arcs between phases. When the Arc Fault Detection Device detects an arc fault in the circuit, it will immediately cut off the power supply to play a protective role.

## LED Indication

LED illumination for AFDD operation and arc fault identification

1. LEDs of phase L1, L2, L3 turn GREEN , AFDD is operating properly;
2. LEDs of phase L1, L2, L3 flash together in RED for 5 times and turn off when AFDD is re-closed after tripping, the tripping is caused by arc fault;
3. LED turn RED or flash in RED, AFDD is operating improperly and shall be replaced by professionals.

## Type designation



## Maximum Protection

AFDD9-63 offers maximum protection against



Series arc faults



Earth arc faults



Overloads



Parallel arc faults



Short circuits

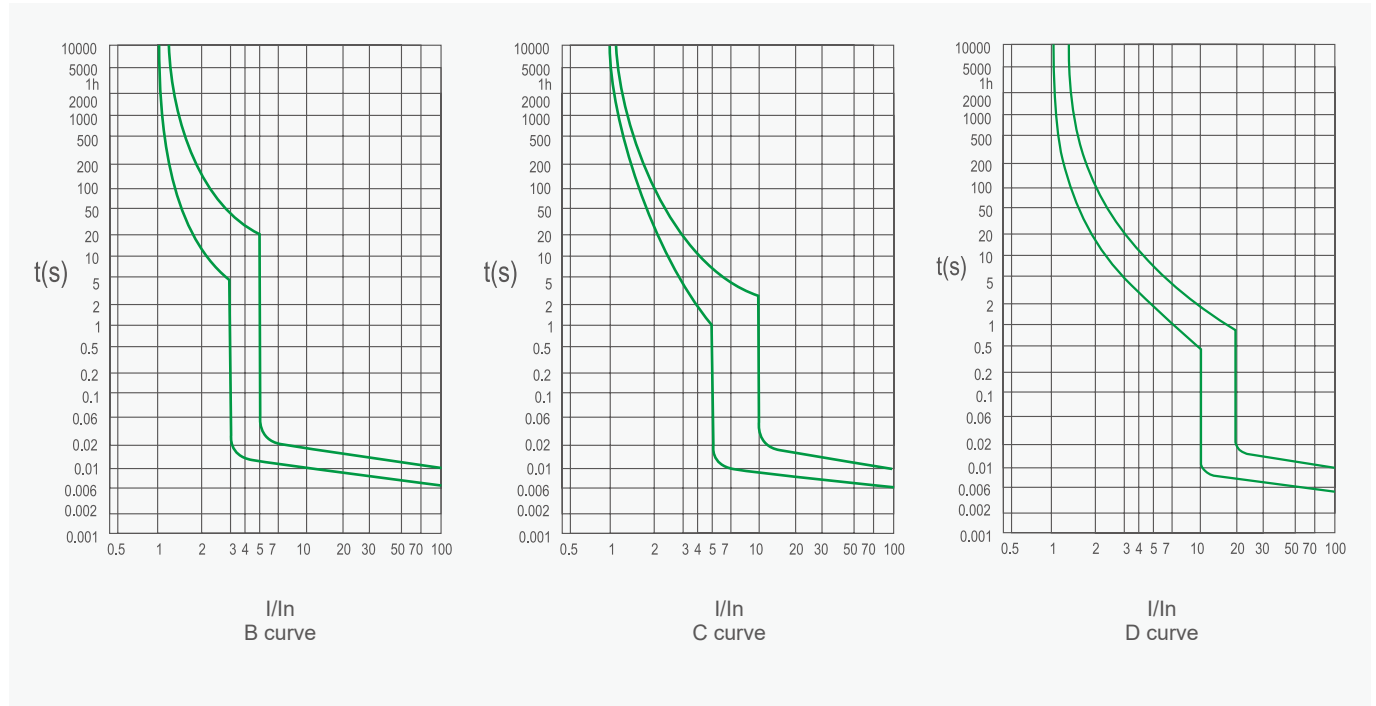
## Final Distribution

# AFDD9-63 Arc Fault Detection Device ( AFDD+MCB )

### Technical data

| Content  | Technical data                 |
|--|--------------------------------|
| Standards  | IEC/EN62606; IEC/EN60898-1     |
| Number of poles                                    | 3P+N                           |
| Rated current $I_n$ , A                            | 6, 10, 16, 20, 25, 32,40,50,63 |
| Rated voltage $U_e$ , V                            | AC400/415                      |
| Rated insulation voltage $U_i$ , V                 | 500                            |
| Rated frequency, Hz                                | 50                             |
| Rated short-circuit breaking capacity $I_{cn}$ , A | 6000                           |
| Rated impulse withstand voltage $U_{imp}$ , V      | 4000                           |
| Over-current protection                            | With over-current protection   |
| Instantaneous tripping type                        | Type B, Type C, Type D         |
| Dielectric strength test voltage for 1min, V       | 2000                           |
| Mechanical and electrical endurance, cycles        | 4000                           |
| Protection degree                                  | IP20                           |
| Connection capacity, mm                            | 25                             |
| Terminal tightening torque, N.m                    | 2.5                            |
| Ambient temperature, °C                            | -25~+40                        |

### Tripping curves



**Final Distribution**

**AFDD9-63 Arc Fault Detection Device ( AFDD+MCB )**

**Overall and mounting dimensions(mm)**

