

VDF-63 RCCB



General introduction

Function

VDF-63 is a kind of circuit breaker with complete update of residual current detection, based on current type A RCCB. It can not only effectively protect AC and pulsing DC (A type), the possible compound residual current (F type), but also smoothing DC and high frequency residual current (1K Hz). In a circuit consisting of rectifier, inverter, frequency inverter, etc, the leakage current caused in DC loop circuit can be effectively detected and protected.

Application

Industry, medical, EV charger, elevator, etc

Conforms to standard

IEC/EN61008-1, IEC/EN62423

Detection residual current type

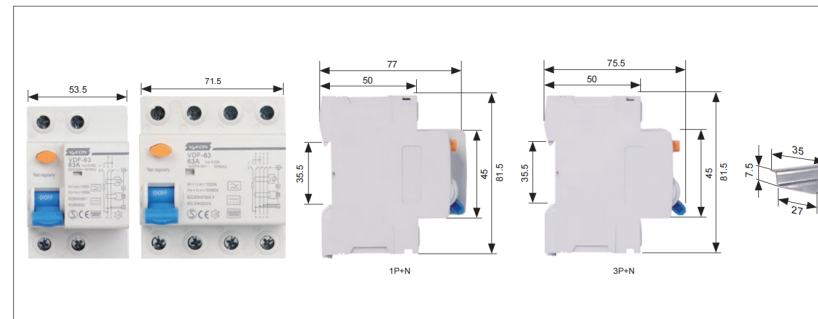
AC+A+ smoothing DC +F+ high frequency signal (1K Hz)

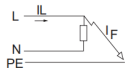
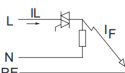
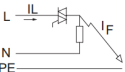
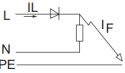
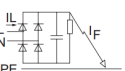
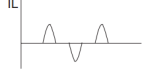
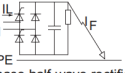
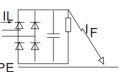
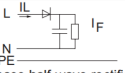
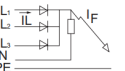
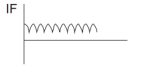
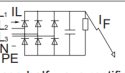
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Main parameters

Types	Values
Rated voltage Un	240V ~ 1P+N, 415V ~ 3P+N
Rated current In	16A, 25A, 32A, 40A, 63A
Rated residual operated current I _{△n}	0.03A, 0.1A, 0.3A
Poles	1P+N, 3P+N
Type of residual current	Type B (AC+A+ smoothing DC+F+ high frequency signal 1K Hz)
Rated limited short circuit current Inc	10000A
Rated limited residual short circuit current I _{△c}	10000A
Rated making and breaking capacity Im	1000A
Rated residual making and breaking capacity I _{△m}	1000A
Rated insulation voltage Ui	500V
Rated impulse withstand voltage Uimp	4000V
Electrical life	2000 Times
Mechanical life	3000 Times
Operated ambient temperature ℃	-25~+40
Stored ambient temperature ℃	-25~+70
Tightening torque	3N.m
Connection capacity	16mm ²
Pollution level	2
Protection level	IP20
Mounting type	II

Overall and mounting sizes(mm)



Circuit diagram	Normal loop current	Loop current of earthing fault	Detection type of residual current		
			AC	A	B
 Single phase			✓	✓	✓
 Phase control			✓	✓	✓
 Impulse control			✓	✓	✓
 Single phase half-wave rectification			×	✓	✓
 Single phase full-wave rectification			×	✓	✓
 Single phase half-wave rectification, half phase control			×	✓	✓
 Single phase full-wave rectification			×	×	✓
 Single phase half-wave rectification, with filtering			×	×	✓
 Three phase half-wave rectification			×	×	✓
 Three phase half-wave rectification, with filtering			×	×	✓