

Residual current circuit breakers (RCCB)

Residual current circuit breaker (RCCB) VD1-63

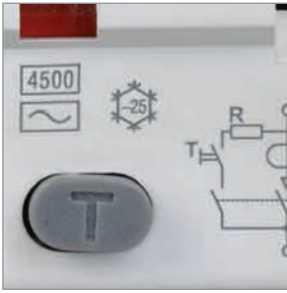
Quick safety breaker with response to residual currents without integrated overcurrent protection. It is intended for electric shock hazard protection in case of eventual unintentional contact with conducting parts of electric installations and preventing fires caused by earth current leakage. The device has no energy consumption and is notable for its high mechanical wear resistance. More than 50 items per 8 rated currents ranging from 16 up to 100 A



Advantages

- Electromechanical design, without use of electronic components.
- The most reliable protection of a person in case of direct contact with live parts.
- Independent contact position indicator.
- Wide operating temperature range, from -25 °C to +40 °C.
- TEST button to check the device operability and correct connections.
- No power consumption, operability is maintained when neutral conductor is broken.
- Notched terminal clamps reduce the heat loss and increase mechanical stability of the connection.
- Quick installation using the latch with double locking.
- Conditional short-circuit current value is 4.5 kA.

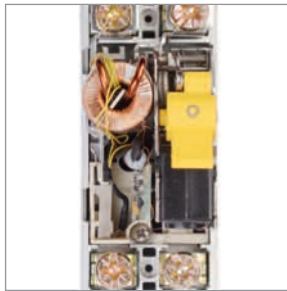
Design Features



TEST button to check the device operability and correct connections.



Simultaneous connection by FORK bar and flexible conductor is possible for power supply distribution via upper terminals, as well as connection by PIN bar.



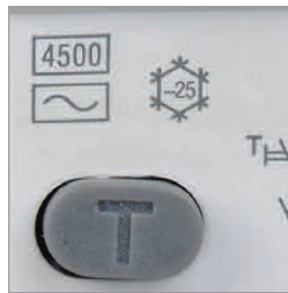
Electromechanical design, without use of electronic components. No power consumption, operability is maintained when neutral conductor is broken.



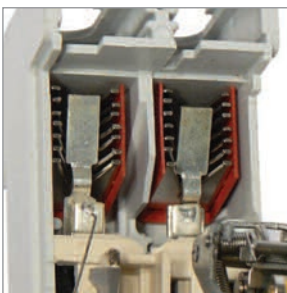
Notched terminal clamps reduce the heat loss and increase mechanical stability of the connection.



Main circuit status indicator provides correct information on contacts status, regardless of the lever position.



Wide operating temperature range, from -25°C to $+40^{\circ}\text{C}$, allows using the circuit breaker in various climatic zones.



Arc suppression chambers for each pole ensure more efficient suppression of electric arc.



Range



Name	Rated current I_n , A	Rated breaking residual current, mA	Package amount, pcs multiple	pcs transport	Product ID
VD1-63 2P 16 A 10 mA	16	10	1	48	MDV10-2-016-010
VD1-63 2P 25 A 10 mA	25	10	1	48	MDV10-2-025-010
VD1-63 2P 16 A 30 mA	16	30	1	48	MDV10-2-016-030
VD1-63 2P 25 A 30 mA	25	30	1	48	MDV10-2-025-030
VD1-63 2P 32 A 30 mA	32	30	1	48	MDV10-2-032-030
VD1-63 2P 40 A 30 mA	40	30	1	48	MDV10-2-040-030
VD1-63 2P 50 A 30 mA	50	30	1	48	MDV10-2-050-030
VD1-63 2P 63 A 30 mA	63	30	1	48	MDV10-2-063-030
VD1-63 2P 80 A 30 mA	80	30	1	48	MDV10-2-080-030
VD1-63 2P 100 A 30 mA	100	30	1	48	MDV10-2-100-030
VD1-63 2P 16 A 100 mA	16	100	1	48	MDV10-2-016-100
VD1-63 2P 25 A 100 mA	25	100	1	48	MDV10-2-025-100
VD1-63 2P 32 A 100 mA	32	100	1	48	MDV10-2-032-100
VD1-63 2P 40 A 100 mA	40	100	1	48	MDV10-2-040-100
VD1-63 2P 50 A 100 mA	50	100	1	48	MDV10-2-050-100
VD1-63 2P 63 A 100 mA	63	100	1	48	MDV10-2-063-100
VD1-63 2P 80 A 100 mA	80	100	1	48	MDV10-2-080-100
VD1-63 2P 100 A 100 mA	100	100	1	48	MDV10-2-100-100
VD1-63 2P 16 A 300 mA	16	300	1	48	MDV10-2-016-300
VD1-63 2P 25 A 300 mA	25	300	1	48	MDV10-2-025-300
VD1-63 2P 40 A 300 mA	40	300	1	48	MDV10-2-040-300
VD1-63 2P 50 A 300 mA	50	300	1	48	MDV10-2-050-300
VD1-63 2P 63 A 300 mA	63	300	1	48	MDV10-2-063-300
VD1-63 2P 80 A 300 mA	80	300	1	48	MDV10-2-080-300
VD1-63 2P 100 A 300 mA	100	300	1	48	MDV10-2-100-300



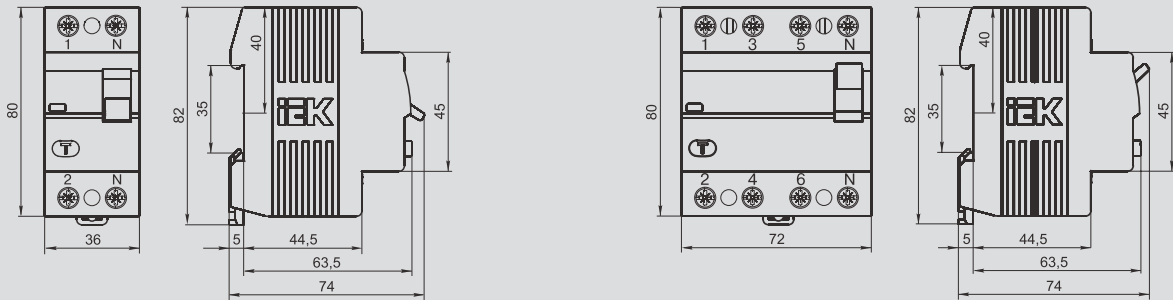
VD1-63 4P 16 A 10 mA	16	10	1	24	MDV10-4-016-010
VD1-63 4P 25 A 10 mA	25	10	1	24	MDV10-4-025-010
VD1-63 4P 16 A 30 mA	16	30	1	24	MDV10-4-016-030
VD1-63 4P 25 A 30 mA	25	30	1	24	MDV10-4-025-030
VD1-63 4P 32 A 30 mA	32	30	1	24	MDV10-4-032-030
VD1-63 4P 40 A 30 mA	40	30	1	24	MDV10-4-040-030
VD1-63 4P 50 A 30 mA	50	30	1	24	MDV10-4-050-030
VD1-63 4P 63 A 30 mA	63	30	1	24	MDV10-4-063-030
VD1-63 4P 80 A 30 mA	80	30	1	24	MDV10-4-080-030
VD1-63 4P 100 A 30 mA	100	30	1	24	MDV10-4-100-030
VD1-63 4P 25 A 100 mA	25	100	1	24	MDV10-4-025-100
VD1-63 4P 32 A 100 mA	32	100	1	24	MDV10-4-032-100
VD1-63 4P 40 A 100 mA	40	100	1	24	MDV10-4-040-100
VD1-63 4P 50 A 100 mA	50	100	1	24	MDV10-4-050-100
VD1-63 4P 63 A 100 mA	63	100	1	24	MDV10-4-063-100
VD1-63 4P 80 A 100 mA	80	100	1	24	MDV10-4-080-100
VD1-63 4P 100 A 100 mA	100	100	1	24	MDV10-4-100-100
VD1-63 4P 16 A 300 mA	16	300	1	24	MDV10-4-016-300
VD1-63 4P 25 A 300 mA	25	300	1	24	MDV10-4-025-300
VD1-63 4P 32 A 300 mA	32	300	1	24	MDV10-4-032-300
VD1-63 4P 40 A 300 mA	40	300	1	24	MDV10-4-040-300
VD1-63 4P 50 A 300 mA	50	300	1	24	MDV10-4-050-300
VD1-63 4P 63 A 300 mA	63	300	1	24	MDV10-4-063-300
VD1-63 4P 80 A 300 mA	80	300	1	24	MDV10-4-080-300
VD1-63 4P 100 A 300 mA	100	300	1	24	MDV10-4-100-300

Technical Features

Feature	VD1-63	VD1-63 type A
Standards	EN 61008-1, EN 61008-2-1, EN 61543	EN 61008-1, EN 61008-2-1, EN 61543
Rated voltage of 50 Hz (frequency), V	230/400	230/400
Rated current I_n , A	16; 25; 32; 40; 50; 63; 80; 100	16, 25, 32, 40, 50, 63
Rated breaking residual current $I_{\Delta n}$, mA	10; 30; 100; 300	10, 30, 100
Rated nominal short circuit current I_{nc} , A	4500	4500
RCCB Type	AC	A
Tripping time, ms	≤40	≤40
NP / No. of poles	2; 4	2, 4
Protection degree	IP20	IP20
Electrical durability, not less than, ops.	4000	4000
Mechanical durability, not less than, ops.	10 000	10 000
Cables max. size, mm ²	50	50
Silver content, (Ag), g/pole	0,6÷2,0	0,5÷1,0
Weight (2-and 4-polar), kg	0,2/0,4	0,2/0,4
Operating temperature range, °C	-25 ÷ +40	-25 ÷ +40

Overall Dimensions

VD1-63



VD1-63 type A

