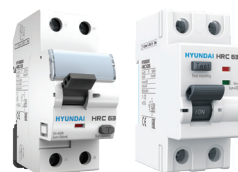


Residual Current Circuit Breaker



Deluxe HRC Type

Model	HRC63, 63 AF	HRC100, 100 AF
Reference Standard	IEC/EN 61008-1	IEC/EN 61008-1
Number of Poles	2P (1P+N), 4P (3P+N)	2P (1P+N), 4P (3P+N)
Rated Current (In)	16, 25, 40, 50, 63 A	80, 100 A
Rated Voltage (Ue)	AC 240/415 V	AC 240/415 V
Rated Frequency (Hz)	50/60	50/60
Rated Conditional Short Circuit Current (Inc)	10 kA	10 kA
Rated Residual Operating Current (IΔn)	30, 100, 300	30, 100, 300
Rated Making Breaking Capacity (Im)	630 A or 10 In whichever is greater	630 A or 10 In whichever is greater
Rated Insulation Voltage (Ui)	500 V	500 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV
Operating Characteristics in Presence of Residual Current with d.c Components	'A' Type & 'AC' Type	'A' Type & 'AC' Type
Trip Time	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms
Dielectric Strength	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000
Busbar Connections	Pin/Fork Type	Pin/Fork Type
Auxiliary Contacts	○	×

Standard HRC Type

Model	HRC63S, 63 AF	HRC100S, 100 AF
Reference Standard	IEC/EN 61008-1	IEC/EN 61008-1
Number of Poles	2P (N+1P), 4P (N+3P)	2P (N+1P), 4P (N+3P)
Rated Current (In)	16, 25, 32, 40, 50, 63 A	80, 100 A
Rated Voltage (Ue)	AC 240/415 V	AC 240/415 V
Rated Frequency (Hz)	50/60	50/60
Rated Conditional Short Circuit Current (Inc)	6 kA	6 kA
Rated Residual Operating Current (IΔn)	30, 100, 300, 500 mA	30, 100, 300, 500 mA
Rated Making Breaking Capacity (Im)	500 A or 10 In whichever is greater	500 A or 10 In whichever is greater
Rated Insulation Voltage (Ui)	690 V	690 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV
Operating Characteristics in Presence of Residual Current with d.c Components	'A' Type & 'AC' Type	'A' Type & 'AC' Type
Trip Time	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms
Dielectric Strength	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000
Busbar Connections	Pin/Fork Type	Pin/Fork Type
Auxiliary Contacts	×	×

Residual Current Circuit Breaker with Overcurrent Protection

RCD Type

Model	HRO63S, 63 AF, 4.5 kA	HRO63M, 63 AF, 6 kA	HRO63P, 63 AF, 10 kA
Reference Standard	IEC/EN 61009-1	IEC/EN 61009-1	IEC/EN 61009-1
Number of Poles	1P+N	1P+N, 2P, 3P, 3P+N, 4P	1P+N, 2P, 3P, 3P+N, 4P
N Phase Position	Right	Right	Right
Rated Current (In)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63 A	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63 A	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63 A
Rated Voltage (Ue)	AC 240 V	AC 240/415 V	AC 240/415 V
Rated Frequency (Hz)	50/60	50/60	50/60
Rated Short Circuit Current (Icn)	4.5 kA (Ics = 100 % Icn)	6 kA (Ics = 100 % Icn)	10 kA (Ics = 75 % Icn)
Rated Residual Operating Current (IΔn)	10, 30, 100, 300, 500 mA	10, 30, 100, 300, 500 mA	10, 30, 100, 300, 500 mA
Rated Residual Making Breaking Capacity (IΔm)	3 kA	3 kA	3 kA
Rated Insulation Voltage (Ui)	500 V	500 V	500 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV	4 kV
Magnetic Release Setting	(3-5)In - B Curve (5-10)In - C Curve (10-20)In - D Curve	(3-5)In - B Curve (5-10)In - C Curve (10-20)In - D Curve	(3-5)In - B Curve (5-10)In - C Curve (10-20)In - D Curve
Operating Characteristics in Presence of Residual Current with d.c Components	'A' Type & 'AC' Type	'A' Type & 'AC' Type	'A' Type & 'AC' Type
Trip Time	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms
Dielectric Strength	2.5 kV	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000	10,000/20,000
Busbar Connections	-	-	-
AUX/ALT/SHT/UVT	○	○	○

Residual Current Circuit Breaker with Overcurrent Protection

Standard HRO Type

Model	HRO40M, 40 AF, 6 kA	HRO40P, 40 AF, 10 kA	HRO40ML, 40 AF, 6 kA (with Cable)	HRO40PL, 40 AF, 10 kA (with Cable)
Reference Standard	IEC/EN 61009-1	IEC/EN 61009-1	IEC/EN 61009-1	IEC/EN 61009-1
Number of Poles	N+1P (1 module)	N+1P (1 module)	N+1P (1 module)	N+1P (1 module)
N Phase Position	Left	Left	Left	Left
Rated Current (In)	6, 10, 13, 16, 20, 25, 32, 40 A	6, 10, 13, 16, 20, 25, 32, 40 A	6, 10, 13, 16, 20, 25, 32, 40 A	6, 10, 13, 16, 20, 25, 32, 40 A
Rated Voltage (Ue)	AC 240 V	AC 240 V	AC 240 V	AC 240 V
Rated Frequency (Hz)	50/60	50/60	50/60	50/60
Rated Short Circuit Current (Icn)	6 kA (Ics = 100 % Icn)	10 kA (Ics = 75 % Icn)	6 kA (Ics = 100 % Icn)	10 kA (Ics = 75 % Icn)
Rated Residual Operating Current (IΔn)	10, 30, 100, 300 mA	10, 30, 100, 300 mA	10, 30, 100, 300 mA	10, 30, 100, 300 mA
Rated Residual Making Breaking Capacity (IΔm)	3 kA	3 kA	3 kA	3 kA
Rated Insulation Voltage (Ui)	500 V	500 V	500 V	500 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV	4 kV	4 kV
Magnetic Release Setting	(3-5)In - B Curve (5-10)In - C Curve	(3-5)In - B Curve (5-10)In - C Curve	(3-5)In - B Curve (5-10)In - C Curve	(3-5)In - B Curve (5-10)In - C Curve
Operating Characteristics in Presence of Residual Current with d.c Components	'A' Type & 'AC' Type	'A' Type & 'AC' Type	'A' Type & 'AC' Type	'A' Type & 'AC' Type
Trip Time	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms
Dielectric Strength	2.5 kV	2.5 kV	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000	10,000/20,000	10,000/20,000
Busbar Connections	-	-	Pin/Fork Type	Pin/Fork Type
AUX/ALT/SHT/UVT	×	×	×	×

Model	HiRO40L, 40 AF, 6 kA (with Cable)	HiRO40T, 40 AF, 6 kA (with Cable)	HiRO40hT, 40 AF, 10 kA (with Cable)
Reference Standard	IEC/EN 61009-1	IEC/EN 61009-1	IEC/EN 61009-1
Number of Poles	1P+N (1 module)	1P+N (1 module)	1P+N (1 module)
N Phase Position	-	-	-
Rated Current (In)	6, 10, 16, 20, 25, 32, 40 A	6, 10, 16, 20, 25, 32, 40 A	6, 10, 16, 20, 25, 32, 40 A
Rated Voltage (Ue)	AC 240 V	AC 240 V	AC 240 V
Rated Frequency (Hz)	50/60	50/60	50/60
Rated Short Circuit Current (Icn)	6 kA (Ics = 100 % Icn)	6 kA (Ics = 100 % Icn)	10 kA (Ics = 75 % Icn)
Rated Residual Operating Current (IΔn)	10, 30, 100, 300 mA	10, 30, 100, 300 mA	10, 30, 100, 300 mA
Rated Residual Making Breaking Capacity (IΔm)	500 A	500 A	500 A
Rated Insulation Voltage (Ui)	500 V	500 V	500 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV	4 kV
Magnetic Release Setting	(3-5)In - B Curve (5-10)In - C Curve	(3-5)In - B Curve (5-10)In - C Curve	(3-5)In - B Curve (5-10)In - C Curve
Operating Characteristics in Presence of Residual Current with d.c Components	'A' Type & 'AC' Type	'A' Type & 'AC' Type	'A' Type & 'AC' Type
Trip Time	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms	1 IΔn < 300 ms, 5 IΔn < 40 ms
Dielectric Strength	2.5 kV	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000	10,000/20,000
Busbar Connections	Pin/Fork Type	Pin/Fork Type	Pin/Fork Type
AUX/ALT/SHT/UVT	×	×	×