





## Ratings

Model			HiRC100-N	HiRC63-N	HiRC63	HiRO40
Figure						
Standard			IEC/EN61008	IEC/EN61008	IEC/EN61008	IEC/EN61009
Current characteristic (type)			AC, A	AC, A	AC, A	AC
Number of poles (P)			2 (1+N), 4 (3+N)	2 (1+N), 4 (3+N)	2 (1+N), 4 (3+N)	1+N
Rated current [In] (A)			63, 80, 100	16, 25, 32, 40, 63	16, 25, 32, 40, 63	1, 3, 5, 6, 10, 16, 20, 25, 32, 40
Rated residual current [ $I_{\Delta n}$ ] (mA)			30, 100, 300, 500	30, 100, 300, 500	30, 100, 300, 500	10, 30, 100, 300, 500
Rated insulation voltage [Ui] (V)			AC500	AC500	AC500	AC500
Rated operational voltage [Ue] (V)			AC240/415 <sup>1)</sup>	AC240/415 <sup>1)</sup>	AC240/415 <sup>1)</sup>	AC240
Rated impulse withstand voltage [Uimp] (kV)			5	5	5	5
Rated frequency (Hz)			50/60	50/60	50/60	50/60
Rated conditional short-circuit current (kA)			10	6	6	4.5
Rated short-circuit breaking capacity (Icu) [kA r.m.s.]	IEC60898	AC220/240V	-	-	-	4.5
		AC380V	-	-	-	4.5
		AC400/460V	-	-	-	4.5
	IEC60947-2	AC220/240V	-	-	-	6
		AC400/460V	-	-	-	6
		DC24V	-	-	-	7.5
		DC60V	-	-	-	6
		DC110V	-	-	-	6
Ics (= % Icu)		75	75	75	75	
Tripping characteristic (curve)			-	-	-	B, C, D
Durability (times)	Electrical		10,000	10,000	10,000	10,000
	Mechanical		20,000	20,000	20,000	20,000
	Operating frequency per hour		120	240(16, 25A), 120(32, 40, 63A)	240(16, 25A), 120(32, 40, 63A)	120
Protection degree			IP20	IP20	IP20	IP20
Pollution degree			3	3	3	3
Reference temperature for setting of thermal element (°C)			-	-	-	30
Ambient temperature (with daily average $\leq +35^{\circ}\text{C}$ ) (°C)			-25 to +55	-25 to +55	-25 to +55	-25 to +55
Storage temperature (°C)			-40 to +70	-40 to +70	-40 to +70	-40 to +70
Terminal size of top/bottom	for cable	IEC (mm <sup>2</sup> )	35	25	25	16
		UL/CSA (AWG)	2	4	4	6
	for bus bar	IEC (mm <sup>2</sup> )	35	25	25	16
		UL/CSA (AWG)	2	4	4	6
Tightening torque (Nm)			3	2.5	2.5	2.5
Mounting			35mm DIN-rail	35mm DIN-rail	35mm DIN-rail	35mm DIN-rail
Weight (kg)	2P (1P+N)		0.24	0.17	0.17	0.16
	4P (3P+N)		0.42	0.34	0.34	-
	1P+N		-	-	-	0.16
Dimensions (mm) (W×H×D)	2P (1P+N)		36×100×67.8	36×82×67.3	35×80×74	35×80×73.5
	4P (3P+N)		72×100×67.8	72×82×67.3	70×80×74	-

※ 1) AC415V is not applicable for 2P (1P+N) and 1P+N breaker.