





## 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	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 <sub>Δn</sub> ] [mA]			30, 100, 300, 500	10, 30, 100, 300, 500	10, 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 [U <sub>imp</sub> ] [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 [I <sub>cu</sub> ] [kA r.m.s.]	IEC60898	AC220/240V	-	-	6	4.5
		AC380V	-	-	6	4.5
		AC400/460V	-	-	6	4.5
	IEC60947-2	AC220/240V	-	-	7.5	6
		AC400/460V	-	-	7.5	6
		AC24V	-	-	10	7.5
		DC60V	-	-	7.5	6
		DC110V	-	-	7.5	6
	I <sub>cs</sub> [= % I <sub>cu</sub> ]		75	75	75	75
	Tripping characteristic (curve)			-	-	-
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 ≤ +35°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	16	16	10
		UL/CSA [AWG]	2	5	6	8
	for bus bar	IEC [mm <sup>2</sup> ]	35	16	16	10
		UL/CSA [AWG]	2	5	6	8
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.

# HiRO40 / 4.5kA 1-40A 10-500mA (AC type only)

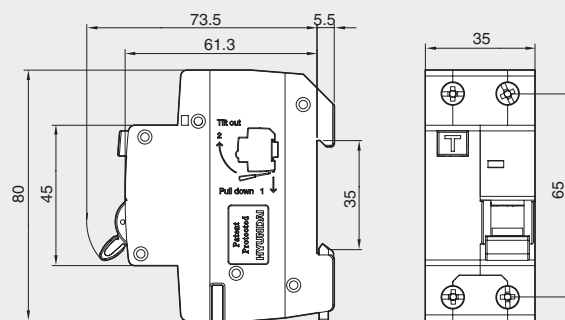
<b>Standard Protection Specification</b>	IEC/EN61009 overload, short-circuit, earth leakage 4.5kA at AC240/415V 1, 3, 5, 6, 10, 16, 20, 25, 32, 40A 10, 30, 100, 300, 500mA 1+N pole B, C, D curve
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■ Order information

HiRO40


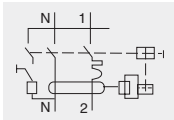

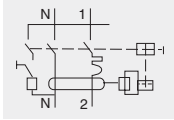
Rating	Code			Unit (EA)	Category		
	B curve	C curve	D curve				
 4.5kA, 1P+N, 10mA	1A	HIRO40 1NG2S0000C 00001B	HIRO40 1NG2S0000C 00001C	HIRO40 1NG2S0000C 00001D	60	RCCB	MA
	3A	HIRO40 1NG2S0000C 00003B	HIRO40 1NG2S0000C 00003C	HIRO40 1NG2S0000C 00003D			
	5A	HIRO40 1NG2S0000C 00005B	HIRO40 1NG2S0000C 00005C	HIRO40 1NG2S0000C 00005D			
	6A	HIRO40 1NG2S0000C 00006B	HIRO40 1NG2S0000C 00006C	HIRO40 1NG2S0000C 00006D			
	10A	HIRO40 1NG2S0000C 00010B	HIRO40 1NG2S0000C 00010C	HIRO40 1NG2S0000C 00010D			
	16A	HIRO40 1NG2S0000C 00016B	HIRO40 1NG2S0000C 00016C	HIRO40 1NG2S0000C 00016D			
	20A	HIRO40 1NG2S0000C 00020B	HIRO40 1NG2S0000C 00020C	HIRO40 1NG2S0000C 00020D			
	25A	HIRO40 1NG2S0000C 00025B	HIRO40 1NG2S0000C 00025C	HIRO40 1NG2S0000C 00025D			
	32A	HIRO40 1NG2S0000C 00032B	HIRO40 1NG2S0000C 00032C	HIRO40 1NG2S0000C 00032D			
	40A	HIRO40 1NG2S0000C 00040B	HIRO40 1NG2S0000C 00040C	HIRO40 1NG2S0000C 00040D			
 4.5kA, 1P+N, 30mA	1A	HIRO40 1NG4S0000C 00001B	HIRO40 1NG4S0000C 00001C	HIRO40 1NG4S0000C 00001D	60	RCCB	MA
	3A	HIRO40 1NG4S0000C 00003B	HIRO40 1NG4S0000C 00003C	HIRO40 1NG4S0000C 00003D			
	5A	HIRO40 1NG4S0000C 00005B	HIRO40 1NG4S0000C 00005C	HIRO40 1NG4S0000C 00005D			
	6A	HIRO40 1NG4S0000C 00006B	HIRO40 1NG4S0000C 00006C	HIRO40 1NG4S0000C 00006D			
	10A	HIRO40 1NG4S0000C 00010B	HIRO40 1NG4S0000C 00010C	HIRO40 1NG4S0000C 00010D			
	16A	HIRO40 1NG4S0000C 00016B	HIRO40 1NG4S0000C 00016C	HIRO40 1NG4S0000C 00016D			
	20A	HIRO40 1NG4S0000C 00020B	HIRO40 1NG4S0000C 00020C	HIRO40 1NG4S0000C 00020D			
	25A	HIRO40 1NG4S0000C 00025B	HIRO40 1NG4S0000C 00025C	HIRO40 1NG4S0000C 00025D			
	32A	HIRO40 1NG4S0000C 00032B	HIRO40 1NG4S0000C 00032C	HIRO40 1NG4S0000C 00032D			
	40A	HIRO40 1NG4S0000C 00040B	HIRO40 1NG4S0000C 00040C	HIRO40 1NG4S0000C 00040D			
 4.5kA, 1P+N, 100mA	1A	HIRO40 1NG5S0000C 00001B	HIRO40 1NG5S0000C 00001C	HIRO40 1NG5S0000C 00001D	60	RCCB	MA
	3A	HIRO40 1NG5S0000C 00003B	HIRO40 1NG5S0000C 00003C	HIRO40 1NG5S0000C 00003D			
	5A	HIRO40 1NG5S0000C 00005B	HIRO40 1NG5S0000C 00005C	HIRO40 1NG5S0000C 00005D			
	6A	HIRO40 1NG5S0000C 00006B	HIRO40 1NG5S0000C 00006C	HIRO40 1NG5S0000C 00006D			
	10A	HIRO40 1NG5S0000C 00010B	HIRO40 1NG5S0000C 00010C	HIRO40 1NG5S0000C 00010D			
	16A	HIRO40 1NG5S0000C 00016B	HIRO40 1NG5S0000C 00016C	HIRO40 1NG5S0000C 00016D			
	20A	HIRO40 1NG5S0000C 00020B	HIRO40 1NG5S0000C 00020C	HIRO40 1NG5S0000C 00020D			
	25A	HIRO40 1NG5S0000C 00025B	HIRO40 1NG5S0000C 00025C	HIRO40 1NG5S0000C 00025D			
	32A	HIRO40 1NG5S0000C 00032B	HIRO40 1NG5S0000C 00032C	HIRO40 1NG5S0000C 00032D			
	40A	HIRO40 1NG5S0000C 00040B	HIRO40 1NG5S0000C 00040C	HIRO40 1NG5S0000C 00040D			

## Dimensions



## Order information

HIRO40

Rating	Code			Unit (EA)	Category		
	B curve	C curve	D curve				
  4.5kA, 1P+N, 300mA	1A	HIRO40 1NG7S0000C 00001B	HIRO40 1NG7S0000C 00001C	HIRO40 1NG7S0000C 00001D	60	RCCB	MA
	3A	HIRO40 1NG7S0000C 00003B	HIRO40 1NG7S0000C 00003C	HIRO40 1NG7S0000C 00003D			
	5A	HIRO40 1NG7S0000C 00005B	HIRO40 1NG7S0000C 00005C	HIRO40 1NG7S0000C 00005D			
	6A	HIRO40 1NG7S0000C 00006B	HIRO40 1NG7S0000C 00006C	HIRO40 1NG7S0000C 00006D			
	10A	HIRO40 1NG7S0000C 00010B	HIRO40 1NG7S0000C 00010C	HIRO40 1NG7S0000C 00010D			
	16A	HIRO40 1NG7S0000C 00016B	HIRO40 1NG7S0000C 00016C	HIRO40 1NG7S0000C 00016D			
	20A	HIRO40 1NG7S0000C 00020B	HIRO40 1NG7S0000C 00020C	HIRO40 1NG7S0000C 00020D			
	25A	HIRO40 1NG7S0000C 00025B	HIRO40 1NG7S0000C 00025C	HIRO40 1NG7S0000C 00025D			
	32A	HIRO40 1NG7S0000C 00032B	HIRO40 1NG7S0000C 00032C	HIRO40 1NG7S0000C 00032D			
	40A	HIRO40 1NG7S0000C 00040B	HIRO40 1NG7S0000C 00040C	HIRO40 1NG7S0000C 00040D			
  4.5kA, 1P+N, 500mA	1A	HIRO40 1NG8S0000C 00001B	HIRO40 1NG8S0000C 00001C	HIRO40 1NG8S0000C 00001D	60	RCCB	MA
	3A	HIRO40 1NG8S0000C 00003B	HIRO40 1NG8S0000C 00003C	HIRO40 1NG8S0000C 00003D			
	5A	HIRO40 1NG8S0000C 00005B	HIRO40 1NG8S0000C 00005C	HIRO40 1NG8S0000C 00005D			
	6A	HIRO40 1NG8S0000C 00006B	HIRO40 1NG8S0000C 00006C	HIRO40 1NG8S0000C 00006D			
	10A	HIRO40 1NG8S0000C 00010B	HIRO40 1NG8S0000C 00010C	HIRO40 1NG8S0000C 00010D			
	16A	HIRO40 1NG8S0000C 00016B	HIRO40 1NG8S0000C 00016C	HIRO40 1NG8S0000C 00016D			
	20A	HIRO40 1NG8S0000C 00020B	HIRO40 1NG8S0000C 00020C	HIRO40 1NG8S0000C 00020D			
	25A	HIRO40 1NG8S0000C 00025B	HIRO40 1NG8S0000C 00025C	HIRO40 1NG8S0000C 00025D			
	32A	HIRO40 1NG8S0000C 00032B	HIRO40 1NG8S0000C 00032C	HIRO40 1NG8S0000C 00032D			
	40A	HIRO40 1NG8S0000C 00040B	HIRO40 1NG8S0000C 00040C	HIRO40 1NG8S0000C 00040D			