400 Volts NH gFF fuse links

Product description

Eaton's Bussmann® series NH 400 V a.c. gFF fuse links have been designed for the protection of low voltage installations where expected short circuit currents are low.

They are used for fast protection of low voltage installations and long aluminium cable runs, acting faster than class gG NH fuse links.

Features

- The use of gFF fuse links reduces nuisance operation over gR type fuse links due to superior overload withstand capability without compromising speed of operation under fault conditions.
- Fast speed of operation makes gFF fuse links the ideal solution for utility network protection (especially in large rural areas) where long aluminium cable runs are used, and low over-load faults may occur.
- The gFF fuse links characteristics allow for secure network protection with long fuse link life, minimising the risk of power outages.
- The use of M-effect technology ensures the distribution network is protected from both low overloads and short-circuits.
- Insulated metal gripping lugs allows for a safer installation as the lug is voltage free, compared to a standard NH fuse link in which the lug is a live part.
- Designed in accordance with IEC 60269-1 and dimensions to IEC 60269-2. Operating characteristics in accordance with AMKA standards.
- Eaton's patented dual indicator system provides clear indication, ensuring extremely reliable local and remote* signalling, decreasing fuse link replacement time and costs.

* with the use of an optional micro switch accessory

Catalogue symbol

- (amp)NHFF(size)BI-400

Catalogue number structure example

Current rating	50						
NH fuse link		NH					
gFF Utilisation class			FF				
Body size				000			
Eaton's Bussmann series					B		
Insulated metal gripping lugs						I	
Rated voltage							400
Complete Catalogue Numbers	50	NH	FF	000	B	I	400

Catalogue number **50NHFF000BI-400** represents a **50** Amps **NH** Fuse link, g**FF** operating class, body size **000**, **B**ussmann series' fuse link with **I**nsulated metal gripping lugs, rated at **400** Volts

NH Fuse body size

- 000, 00, 1, 02, 2 and 3

Technical data

- Rated voltage: 400 V a.c.
- Rated current: 10 to 630 A
- Breaking capacity: 120 kA, 80 kA for NH00 80 A and 160 A
- Operating frequency: 50 Hz
- Class of operation: gFF

Standard/Approvals

- IEC 60269 part 1
- Dimensionally in accordance to IEC 60269 part 2 and DIN 43620 part 1 and 3

Microswitches

NH Fuse link body size	Suitable microswitch
000	170H0236
00	170H0236
1	170H0236
02	BVL50
2	170H0235 or 170H0236
3	170H0235

Compatible fuse holders and fuse gear

Description	Type	Data sheet number
Fuse bases 1-pole	DIN-Rail mounting SD-D	10163
	Screw mounting SD-S	10163
Fuse bases 3-pole	DIN-Rail mounting TD-D	10163
Fuse bases accessories	IP20, Shroud and phase barriers kits	10163
Fuse rails	Vertical EBF	10240
Fuse switch disconnectors	Vertical EBV	10275
	Horizontal - EBH size 000	10292
	Horizontal - EBH sizes 00 to 4	10293

Packaging

- MOQ: 3

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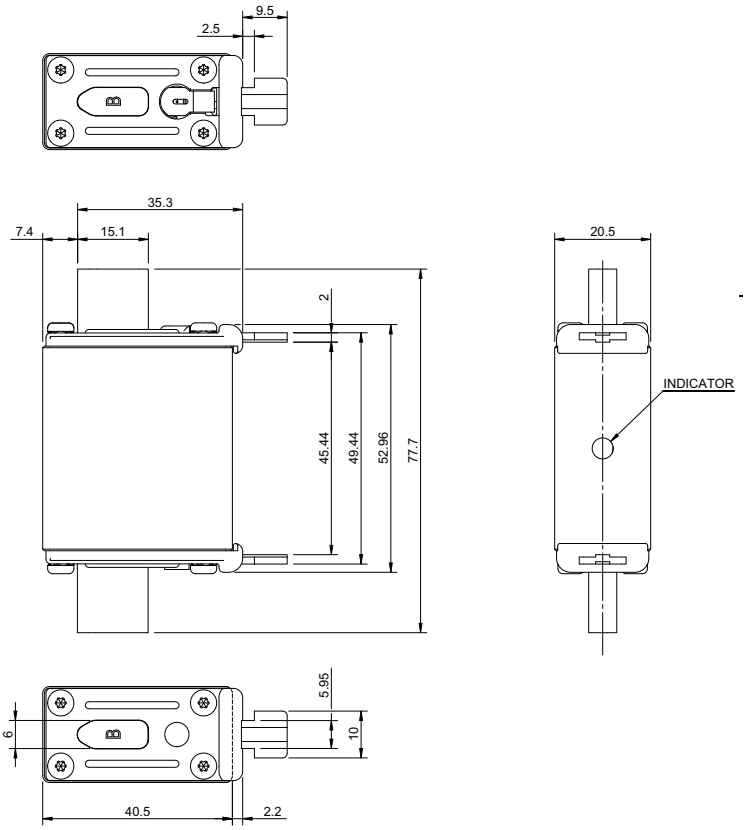
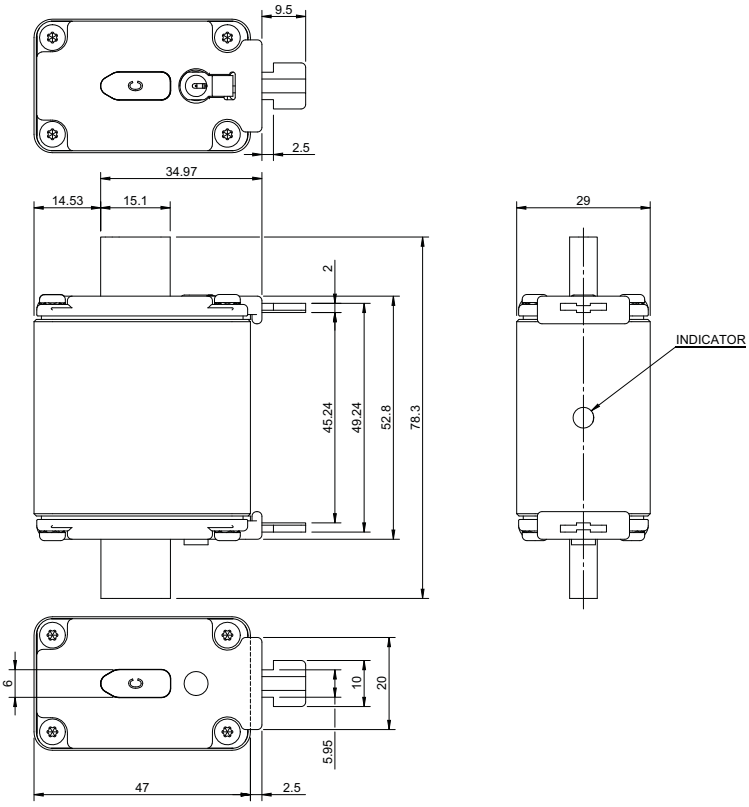
Catalogue numbers

		400 V a.c. class gFF	I^2t (Amps^2 Seconds				
Size	Current (Amps)	Insulated conducting metal gripping lugs	Minimum pre-arcing	Total at 400 V a.c.	Watts loss (W)	Net weight per fuse (kg)	Pack Quantity
000	10	10NHFF000BI-400	44	180	1.7	0.113	3
	16	16NHFF000BI-400	160	600	2.3		
	25	25NHFF000BI-400	1000	3200	2.3		
	35	35NHFF000BI-400	2700	8300	2.7		
	50	50NHFF000BI-400	3100	8800	5.4		
	63	63NHFF000BI-400	6400	18700	6.5		
	80	80NHFF000BI-400	12300	32000	8		
	100	100NHFF000BI-400	24600	59000	9		
00	63	63NHFF00BI-400	6400	18,700	6.5	0.165	3
	80	80NHFF00BI-400	12,300	32,000	8		
	100	100NHFF00BI-400	24,600	59,000	9		
	125	125NHFF00BI-400	41,800	98,600	11		
	160	160NHFF00BI-400	46,700	133,000	13		
1	35	35NHFF1BI-400	1600	4400	5.5	0.348	3
	50	50NHFF1BI-400	3200	9900	6		
	63	63NHFF1BI-400	6400	18,700	7.1		
	80	80NHFF1BI-400	14,600	39,400	7.4		
	100	100NHFF1BI-400	23,700	72,300	11		
	125	125NHFF1BI-400	35,100	92,400	11.5		
	160	160NHFF1BI-400	75,600	187,000	14		
	200	200NHFF1BI-400	109,000	260,000	18		
	224	224NHFF1BI-400	130,000	310,000	22		
	250	250NHFF1BI-400	186,000	425,000	24		
02	160	160NHFF02BI-400	67,400	168,000	15	0.453	3
	200	200NHFF02BI-400	90,000	214,000	21		
	250	250NHFF02BI-400	186,000	425,000	24		
2	315	315NHFF2BI-400	152,000	472,000	33	0.515	3
	355	355NHFF2BI-400	242,000	726,000	33		
	400	400NHFF2BI-400	354,000	1,070,000	34		
3	450	450NHFF3BI-400	325,000	980,000	46	0.904	3
	500	500NHFF3BI-400	456,000	1,370,000	47		
	630	630NHFF3BI-400	1,230,000	3,700,000	48		

Outline drawings - mm



Size 000



Size 00

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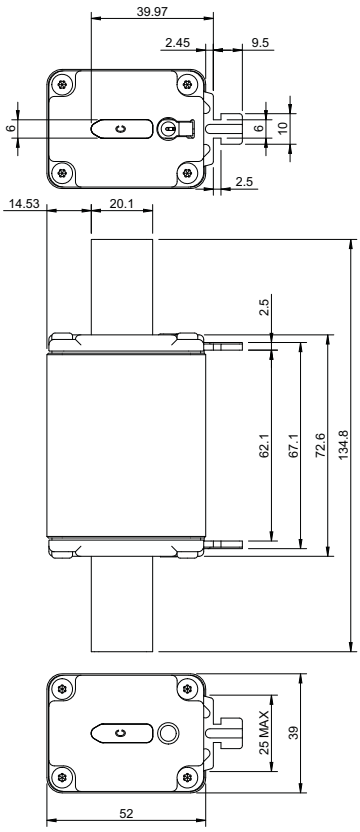
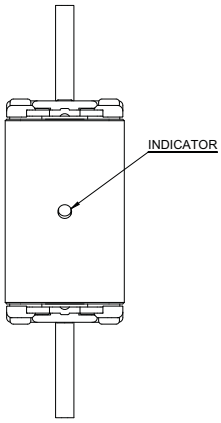
Outline drawings - mm





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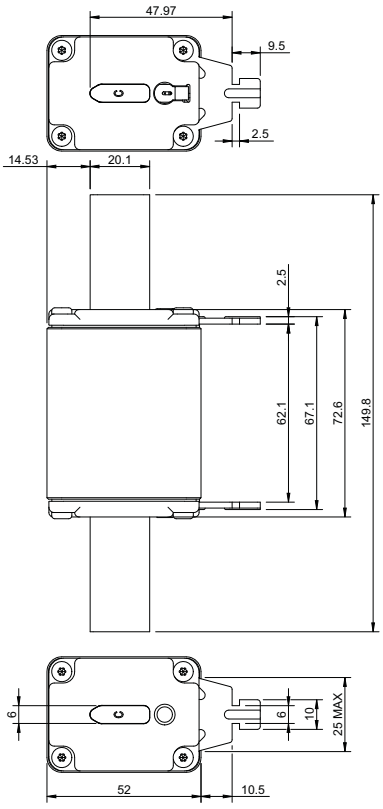

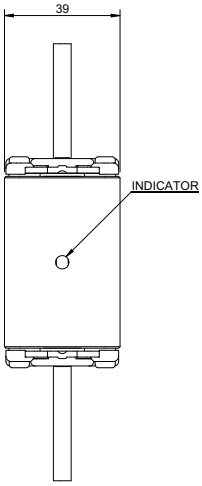

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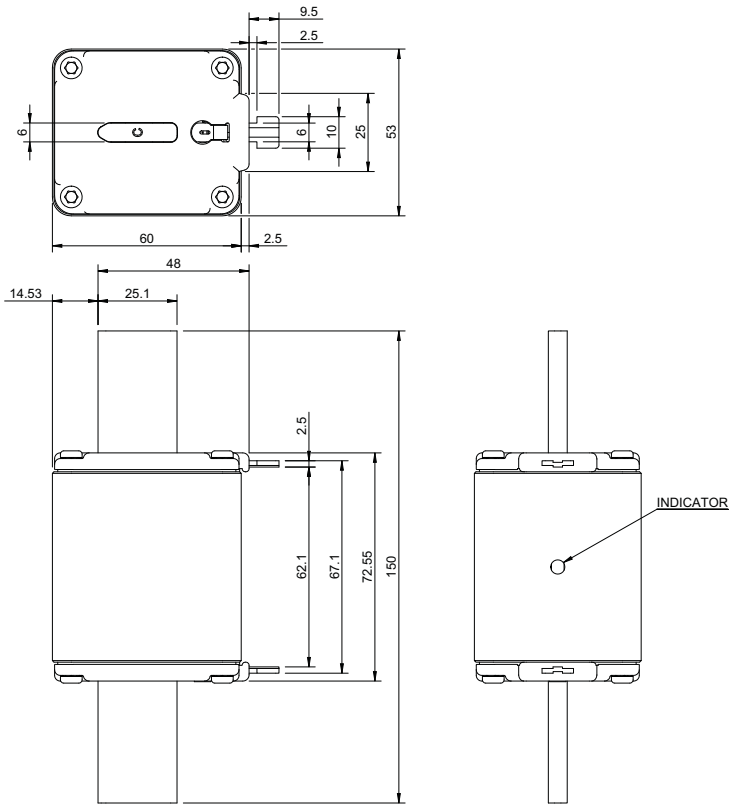
Outline drawings - mm



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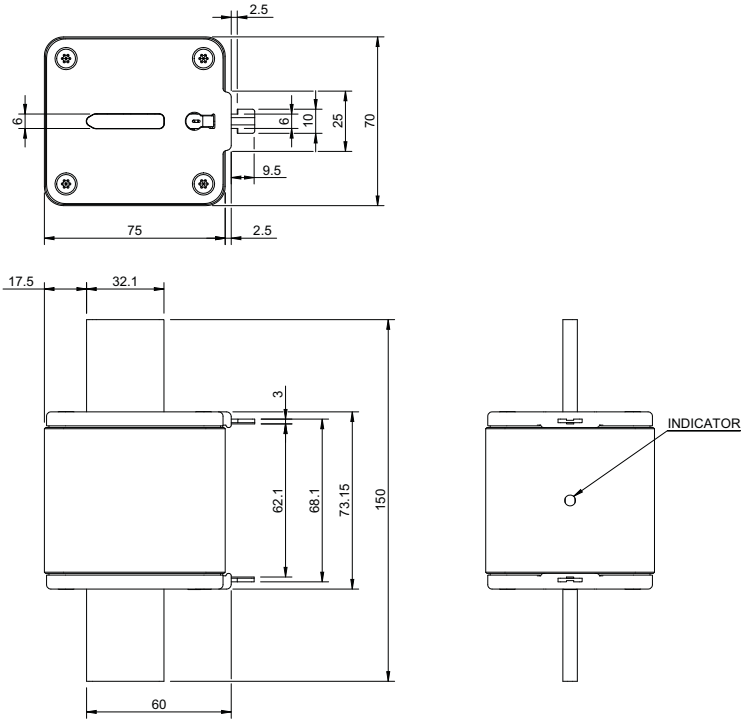

Size 3

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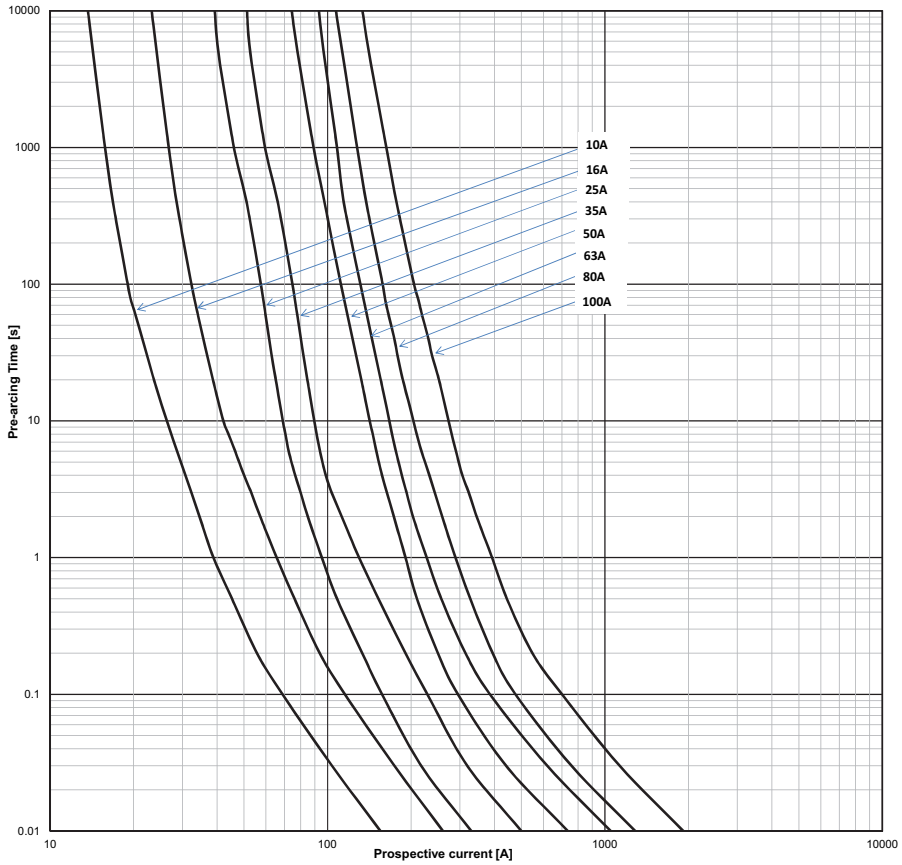
Time-current curves



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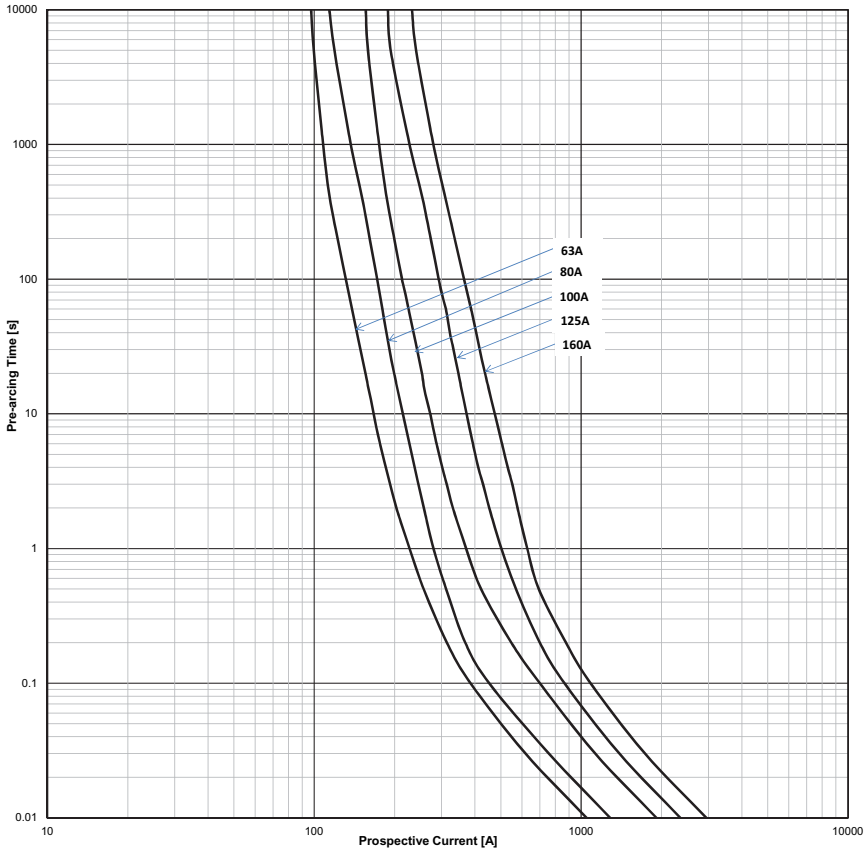

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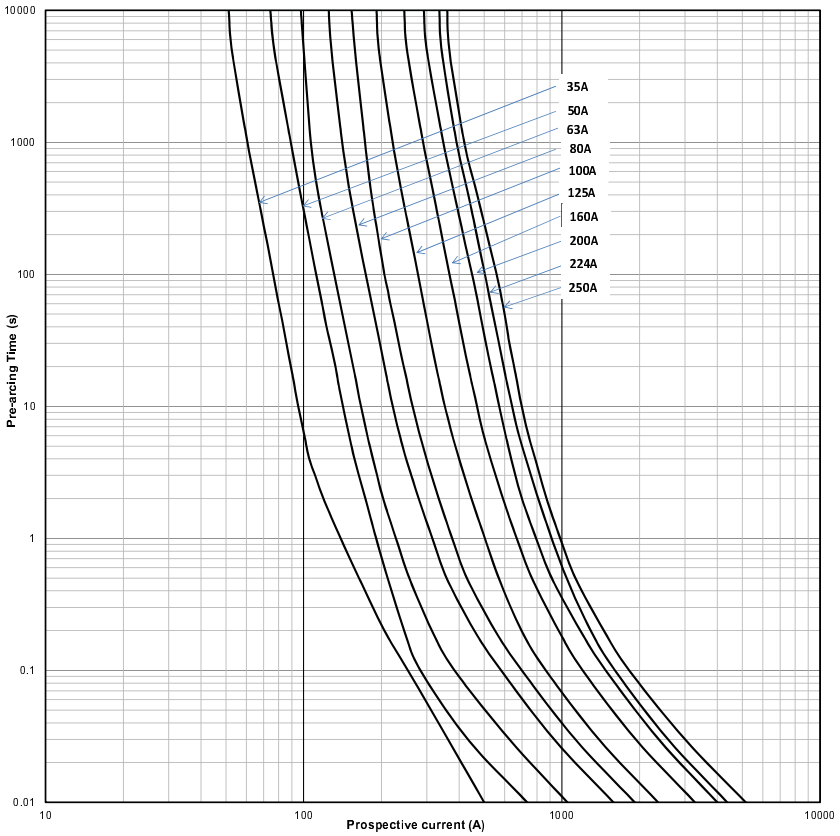
Time-current curves



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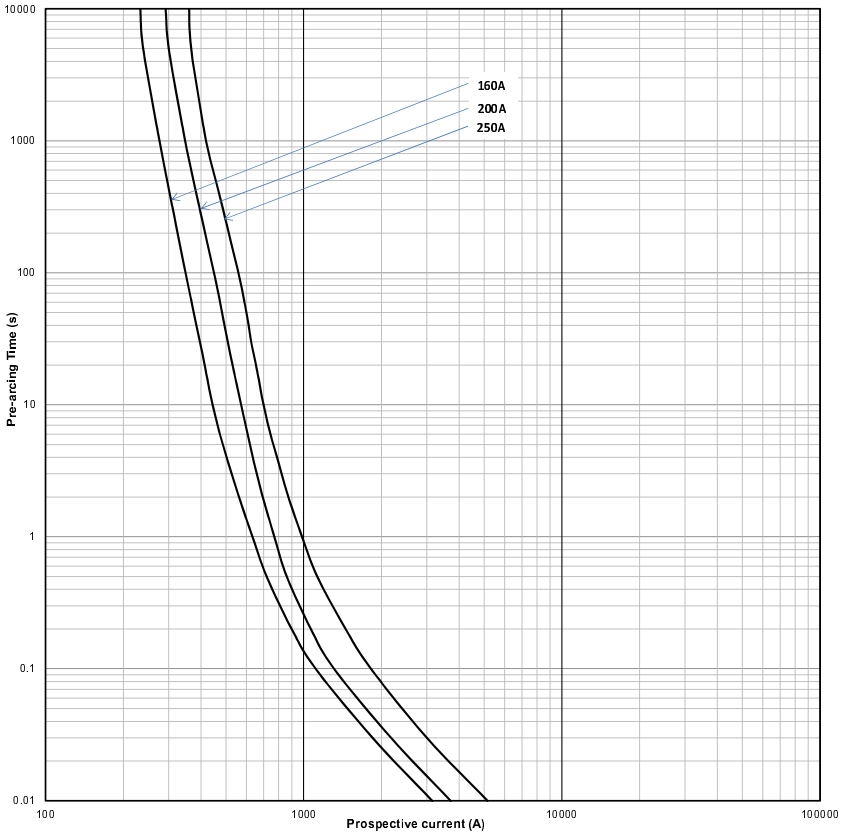

Size 02

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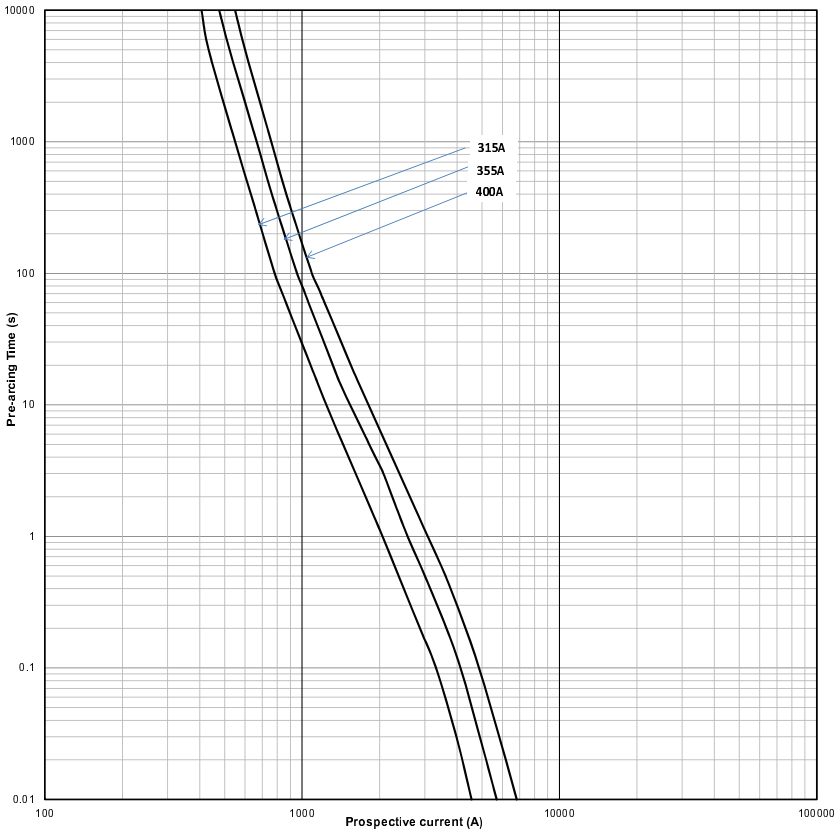
Time-current curves



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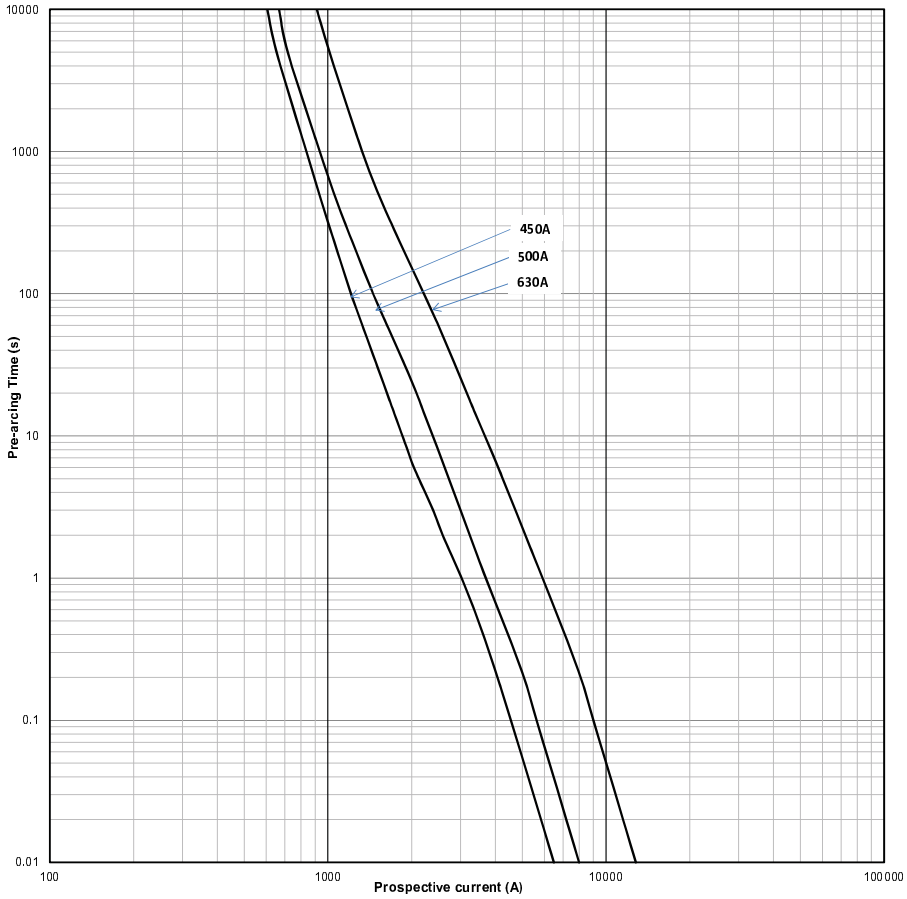
Time-current curve



Size 3

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