5.5kV E-Rated

Medium voltage fuses for feeder circuit, switchgear and transformer protection

Description:

- E-Rated, current-limiting, medium voltage fuses for feeder circuit, switchgear and transformer protection.

Features and benefits

- Current-limiting E-Rated medium voltage fuses are defined by their melting time-current characteristic that permit their electrical interchangeability with other fuses of the same E Rating.
- E-Rated fuses must have a defined current response time specified by ANSI C37.46. E-Rated fuse of 100 amps and below must melt in 300 seconds at an RMS current within the range of 200% to 240% of the fuse's nameplate current rating. E-Rated fuses greater than 100 amps must melt in 600 seconds at an RMS current within the range of 220% to 264% of the fuse's nameplate current rating.
- E-Rated fuses are physically dimensioned for easy installation in existing hardware.
- Current-limiting fuses provide positive interruption even on low fault currents. The fuse limits the magnitude of electromechanical stresses in the protected apparatus.
- Constructions available in ferrule, bolt-on and clip-lock, and specialty mount fuses for AMPGARD™ motor starters.
- Outdoor rating available on select catalog numbers (requires installation in a suitable enclosure).
- Open fuse indicator easily integrates into automation schemes and speeds troubleshooting by providing a positive visual indication of fuse operation.
- 50/60Hz operating frequency for worldwide application.
- Mountings are available in disconnect and non-disconnect versions with porcelain or glass polyester insulators.
- Live parts and end fittings available.

Typical applications:

- Medium voltage transformer primary protection
- Medium voltage feeder circuit protection
- Medium voltage switches
- Medium voltage metal-enclosed switchgear

E-Rated medium voltage ferrule fuses

Catalog symbols:

- General purpose:
  - 5CLE-_E-D (10-25A)
  - 5CLE-_E (10-1350A)
  - 5HLE-_E (10-450A)
  - JCY-_E (1-25A)
- Full range (per ANSI C37.40)
  - MV055F_ (10-450A)

Ratings*:

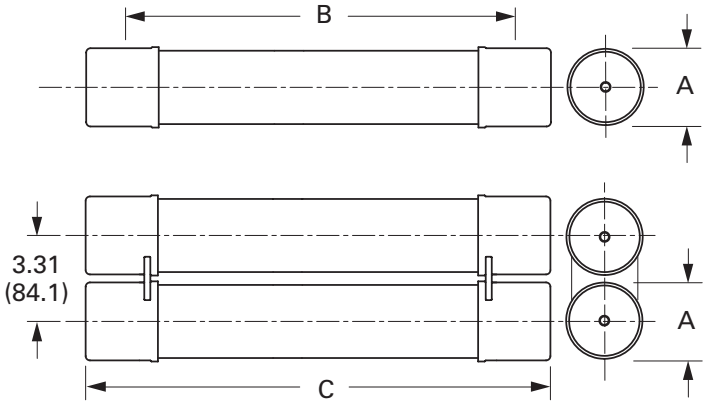
- Volts
  - 5.5kV
- Amps
  - 1 to 1350A
- Interrupting ratings
  - 40 to 63kA RMS Sym

* See catalog number tables for voltages, ampacities and interrupting ratings by catalog number.

Agency information:

- E-Rated fuses meet the performance characteristics of ANSI C37.46
- UL® Listed, Guide JEEG, File E240398. See catalog numbers.

Dimensions (see catalog number tables for values)



Recommended fuseclips and holders:

CLE and HLE

Amp rating	Fuse mounting type*	Voltage BIL (kV)	Approximate dimensions - in (mm)			Catalog number			
						Mounting (including live parts, end fittings)**		Live parts (including end fittings)	End fittings (disconnect only)
			Diameter A	Clip center B	Length C	Porcelain insulator	Glass-polyester insulator		
CLE									
10E-D–25E-D 30E–250E Single barrel	Non-disconnect	60	3.0 (76.2)	14.0 (355.6)	17.9 (454.7)	5CLE-PNM-D	5CLE-GNM-D	CLE-NL-D	—
	Disconnect†	60				5CLE-PDM-D	5CLE-GDM-D	CLE-DL-D	CLE-DF-D
15E–25E Single barrel	Non-disconnect	60	2.0 (50.8)	11.5 (292.1)	12.9 (327.7)	5CLE-PNM-C	5CLE-GNM-C	CLE-NL-C	—
	Disconnect†	60				5CLE-PDM-C	5CLE-GDM-C	CLE-DL-C	CLE-DF-C
300E–450E Double barrel	Non-disconnect	60	3.0 (76.2)	14.0 (355.6)	17.9 (454.7)	5CLE-PNM-E	5CLE-GNM-E	CLE-NL-E	—
	Disconnect†	60				5CLE-PDM-E	5CLE-GDM-E	CLE-DL-E	CLE-DF-E
600E and 750E Double barrel	Consult factory	60	4.0 (101.6)	N/A	N/A	—	—	—	—
1100E and 1350E Four barrel	Consult factory	—	4.0 (101.6)	N/A	N/A	—	—	—	—
HLE									
10E-D–250E Single barrel	Non-disconnect	60	3.0 (76.2)	12.0 (304.8)	15.9 (403.9)	5HLE-PNM-D	5HLE-GNM-D	CLE-NL-D	—
	Disconnect	60				5HLE-PDM-D	5HLE-GDM-D	CLE-DL-D	CLE-DF-D
300E–450E Double barrel	Non-disconnect	60	3.0 (76.2)	12.0 (304.8)	15.9 (403.9)	5HLE-PNM-E	5HLE-GNM-E	CLE-NL-E	—
	Disconnect	60				5HLE-PDM-E	5HLE-GDM-E	CLE-DL-E	CLE-DF-E

* See page 12 for illustrations and dimensions
** End fittings supplied only when required.
† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

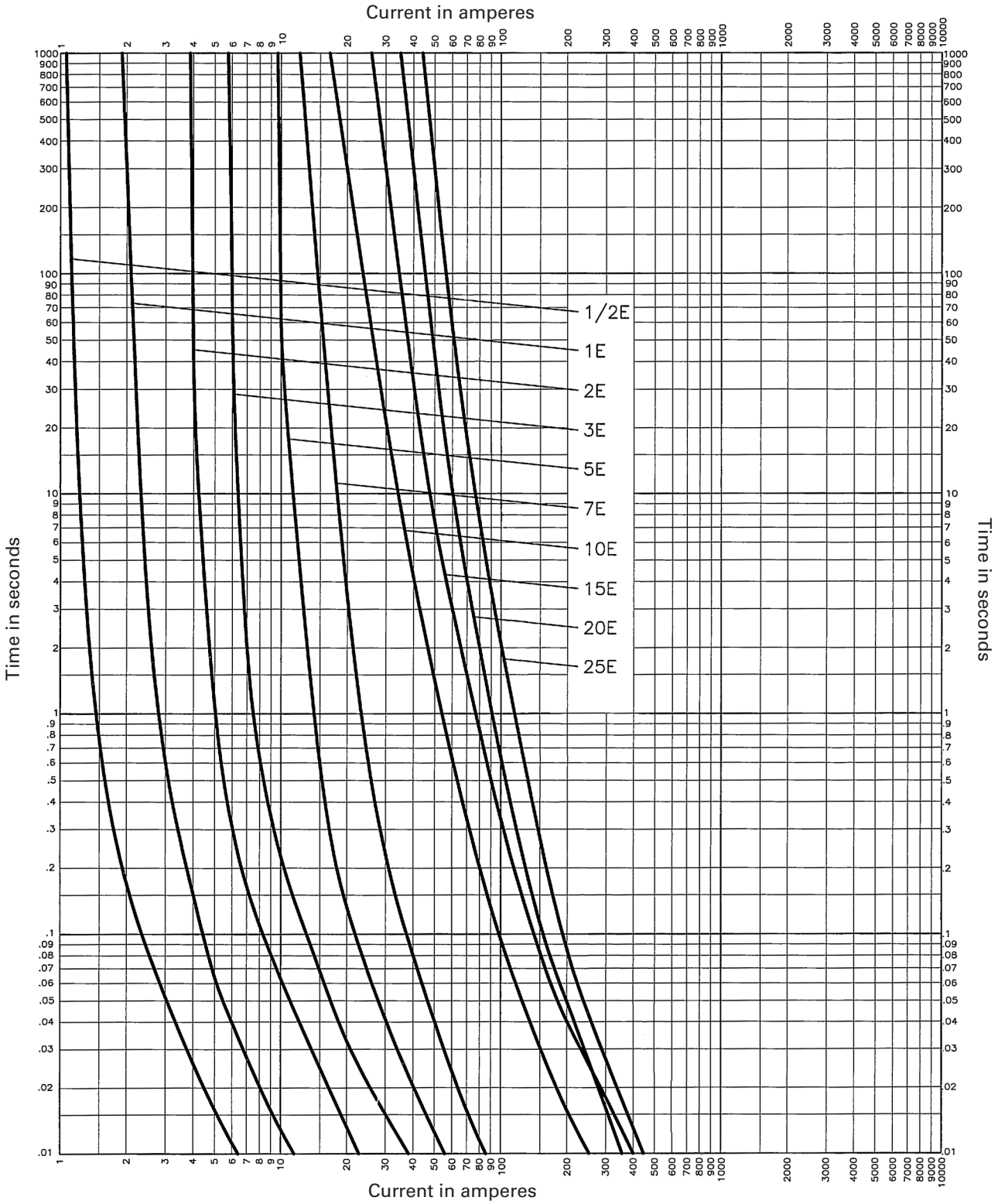
CLE, HLE and JCY general purpose

Amp rating	Dimensions - in (mm)			Interrupting rating kA (RMS Sym.)	Number of barrels	Installation location	Catalog number
	Length A	Diameter B	Clip centers C				
1	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-1E
2	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-2E
3	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-3E
5	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-5E
7	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-7E
10	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-10E
10	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-10E-D
10	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-10E
15	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-15E
15	12.9 (328)	2 (51)	11.5 (292)	50	1	Indoor	5CLE-15E*
15	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-15E-D
15	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-15E
20	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-20E
20	12.9 (328)	2 (51)	11.5 (292)	50	1	Indoor	5CLE-20E*
20	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-20E-D
20	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-20E
25	11.2 (284)	2 (51)	9 (229)	40	1	Indoor/outdoor	JCY-25E
25	12.9 (328)	2 (51)	11.5 (292)	50	1	Indoor	5CLE-25E*
25	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-25E-D
25	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-25E
30	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-30E
30	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-30E
40	17.9 (455)	3 (76)	14 (356)	50	1	Indoor/outdoor	5CLE-40E†
40	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-40E†
50	17.9 (455)	3 (76)	14 (356)	50	1	Indoor/outdoor	5CLE-50E†
50	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-50E†
65	17.9 (455)	3 (76)	14 (356)	50	1	Indoor/outdoor	5CLE-65E†
65	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-65E†
80	17.9 (455)	3 (76)	14 (356)	50	1	Indoor/outdoor	5CLE-80E†
80	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-80E†
100	17.9 (455)	3 (76)	14 (356)	50	1	Indoor/outdoor	5CLE-100E†
100	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-100E†
125	17.9 (455)	3 (76)	14 (356)	50	1	Indoor/outdoor	5CLE-125E†
125	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-125E†
150	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-150E†
150	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-150E†
175	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-175E†
175	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-175E†
200	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-200E†
200	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-200E†
250	17.9 (455)	3 (76)	14 (356)	63	1	Indoor/outdoor	5CLE-250E†
250	15.9 (404)	3 (76)	12 (305)	63	1	Indoor/outdoor	5HLE-250E†
300	17.9 (455)	3 (76)	14 (356)	63	2	Indoor/outdoor	5CLE-300E†
300	15.9 (404)	3 (76)	12 (305)	63	2	Indoor/outdoor	5HLE-300E†
350	17.9 (455)	3 (76)	14 (356)	63	2	Indoor/outdoor	5CLE-350E†
350	15.9 (404)	3 (76)	12 (305)	63	2	Indoor/outdoor	5HLE-350E†
400	17.9 (455)	3 (76)	14 (356)	63	2	Indoor/outdoor	5CLE-400E†
400	15.9 (404)	3 (76)	12 (305)	63	2	Indoor/outdoor	5HLE-400E†
450	17.9 (455)	3 (76)	14 (356)	63	2	Indoor/outdoor	5CLE-450E†
450	15.9 (404)	3 (76)	12 (305)	63	2	Indoor/outdoor	5HLE-450E†

* Fuses conform to dimensional standards established by Westinghouse.

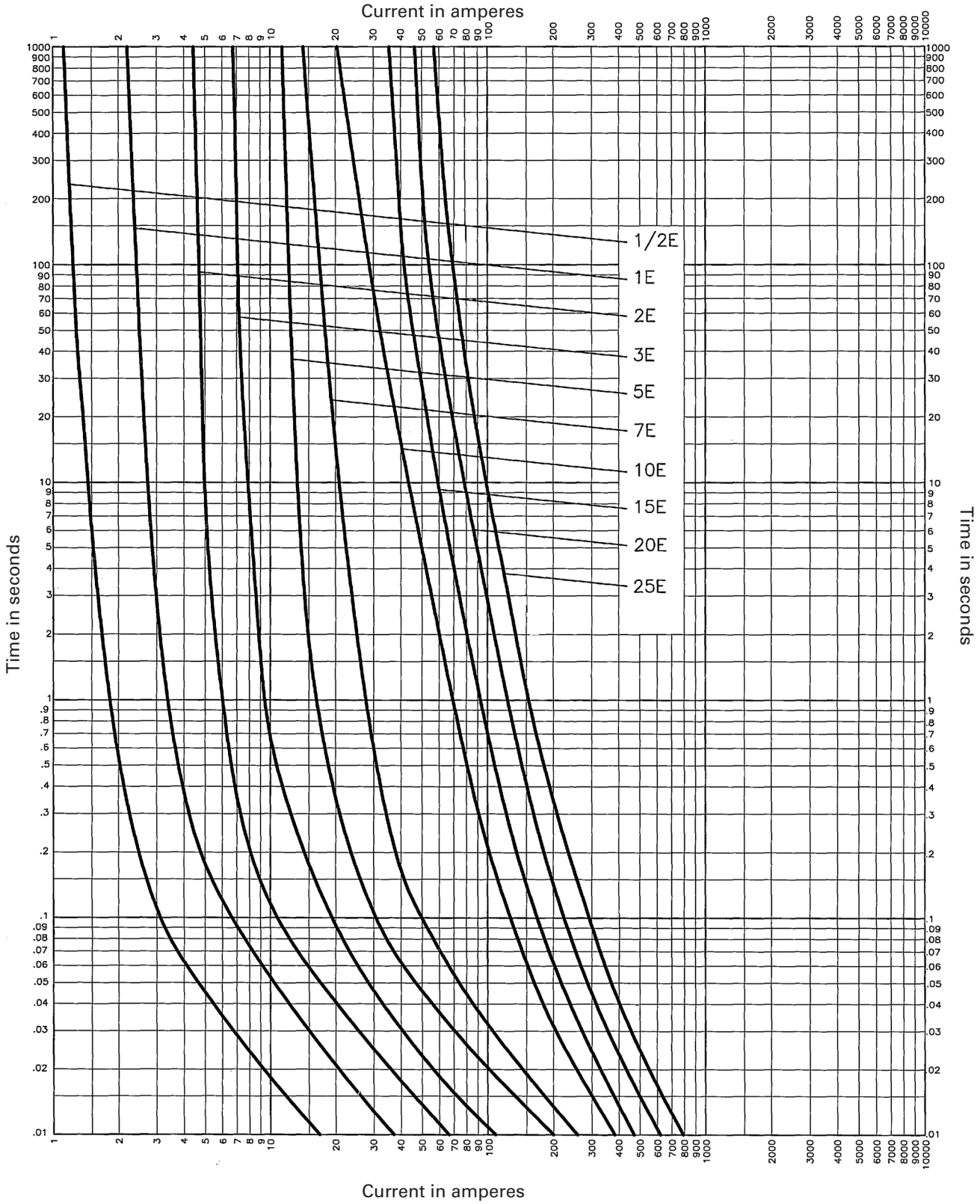
† UL Listed, Guide JEEG, File E240398.

5.5kV time-current curves — minimum melt for JCY-_E fuses



JCY-_

5.5kV time-current curves — total clear for JCY-_E fuses



JCY-_

MV055 full range

Amp rating	Dimensions - in (mm) Length A	Diameter B	Clip centers C	Interrupting rating kA (RMS Sym.)	Number of barrels	Installation location	Catalog number
5	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX5E
7	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX7E
10	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX10E
10	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX10E
15	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX15E
15	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX15E
20	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX20E
20	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX20E
25	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX25E
25	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX25E
30	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX30E
30	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX30E
40	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX40E
40	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX40E
50	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX50E
50	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX50E
65	15.7 (399)	2 (51)	12 (305)	50	1	Indoor	MV055F1CAX65E
65	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX65E
80	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX80E
100	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX100E
125	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX125E
150	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX150E
175	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX175E
200	15.7 (399)	3 (76)	12 (305)	50	1	Indoor	MV055F1DAX200E
250	15.7 (399)	3 (76)	12 (305)	50	2	Indoor	MV055F2DAX250E
300	15.7 (399)	3 (76)	12 (305)	50	2	Indoor	MV055F2DAX300E
350	15.7 (399)	3 (76)	12 (305)	50	2	Indoor	MV055F2DAX350E
400	15.7 (399)	3 (76)	12 (305)	50	2	Indoor	MV055F2DAX400E
450	15.7 (399)	3 (76)	12 (305)	50	2	Indoor	MV055F2DAX450E

Recommended MV055 fuseclips:

Description	Fuse diameter - in (mm)	Figure	Clip dimensions - in (mm) A	B	C	D	E	F	G	Catalog number
Enclosed fuseclip	2 (51)	1	3.75 (95)	1.98 (50)	2.01 (51)	1.19 (30)	4.54 (115)	1.51 (38)	0.4 (10)	A3354710*
Enclosed fuseclip	3 (76)	1	4.14 (105)	2.45 (62)	3.01 (76)	1.19 (30)	5.64 (143)	1.51 (38)	0.4 (10)	A3354730*
Open fuseclip	3 (76)	2	See dimensions drawing							1A0065
Spring loaded open fuseclip	3 (76)	3	See dimensions drawing							9078A67G04

*For single barrel applications only. Not sold in pairs.

Figure 1

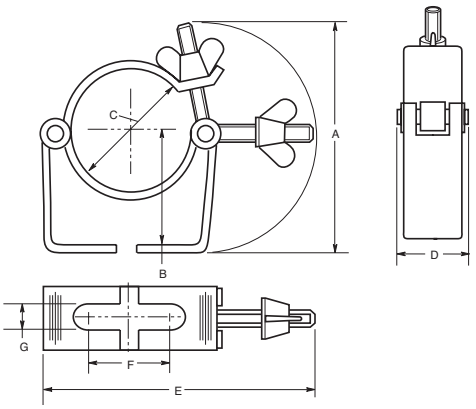


Figure 2

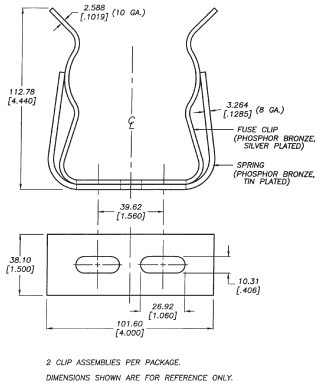
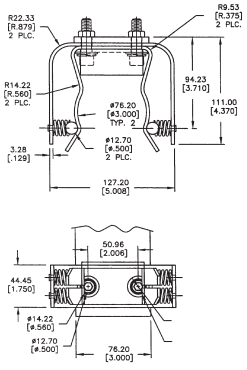
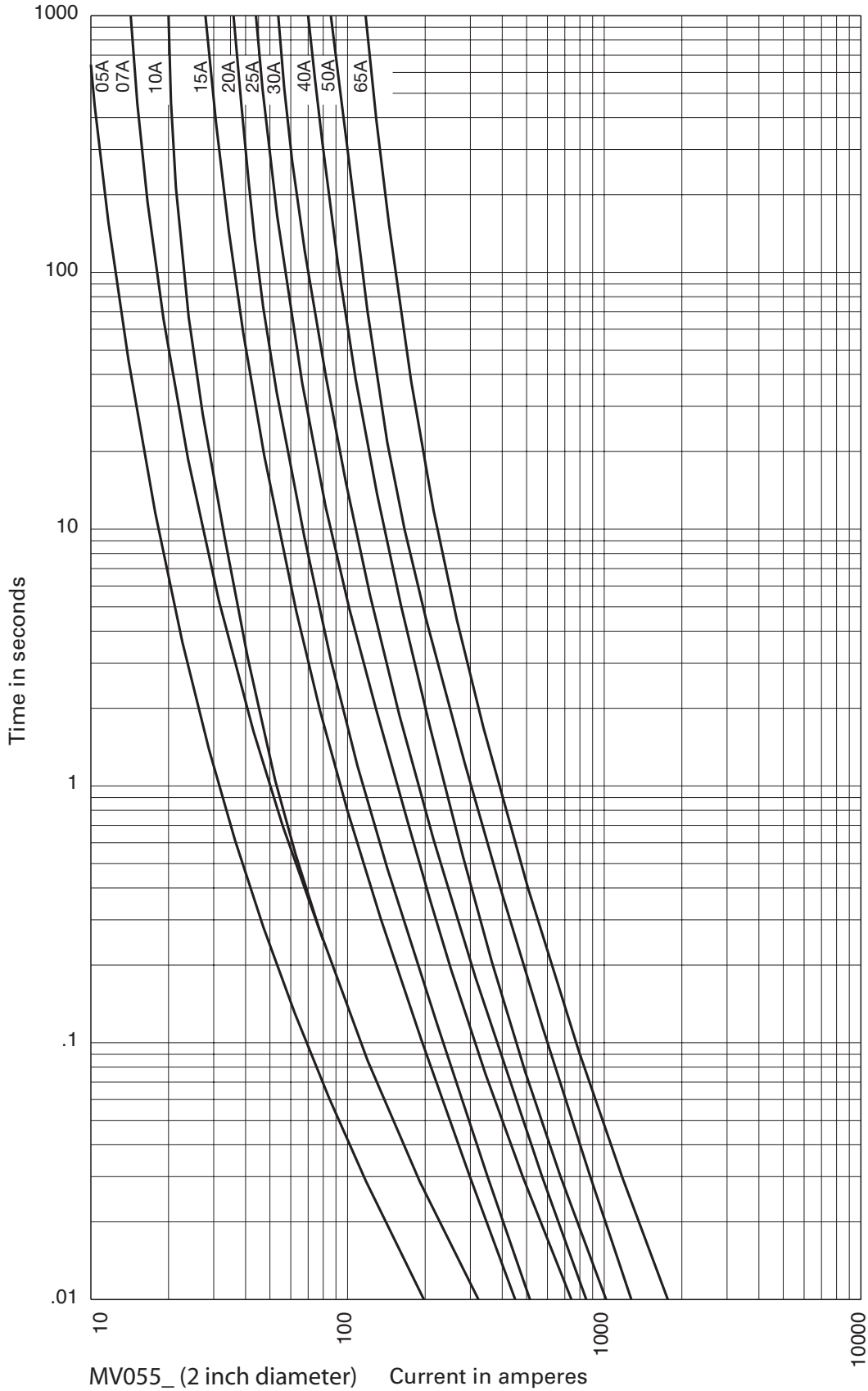


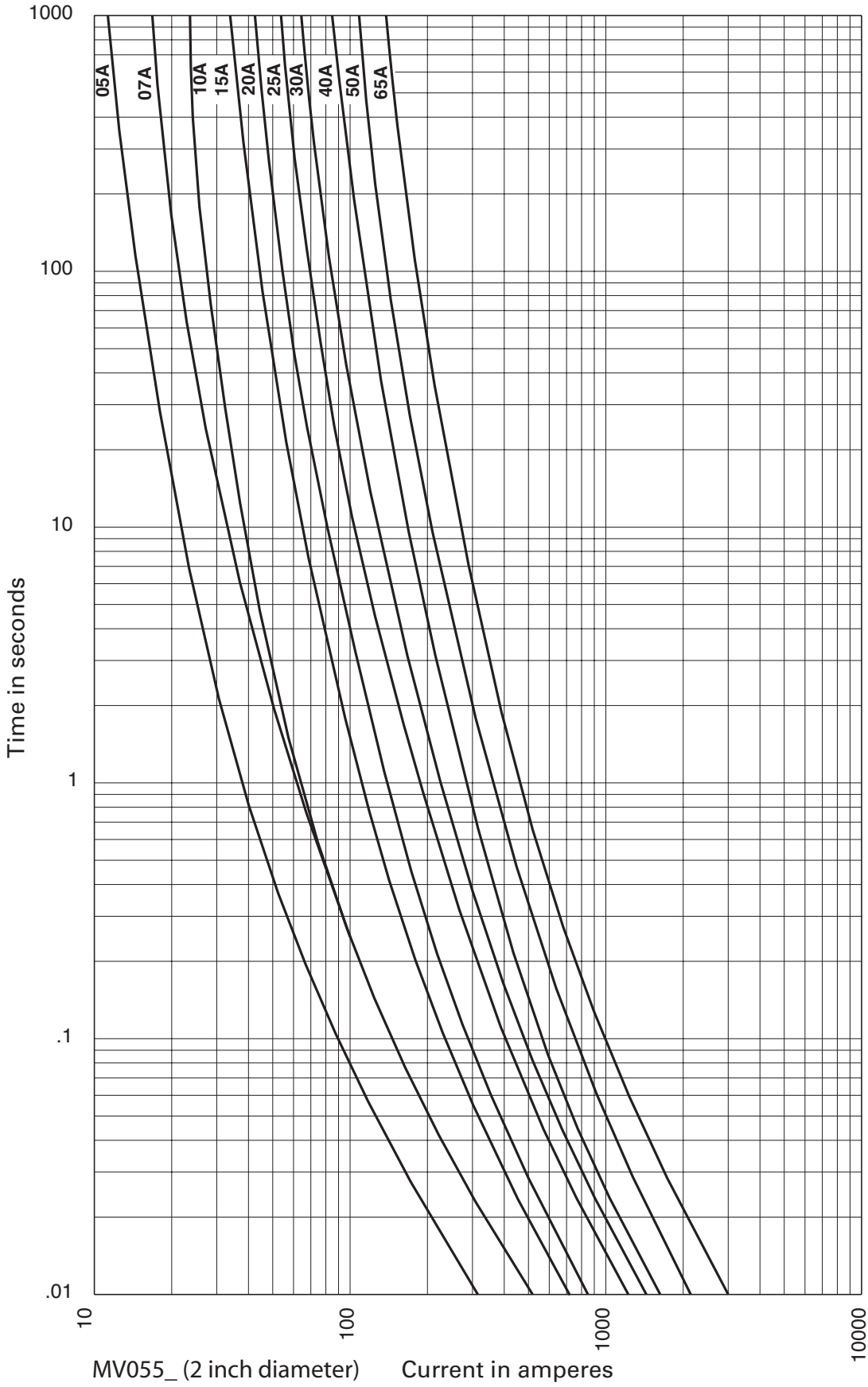
Figure 3



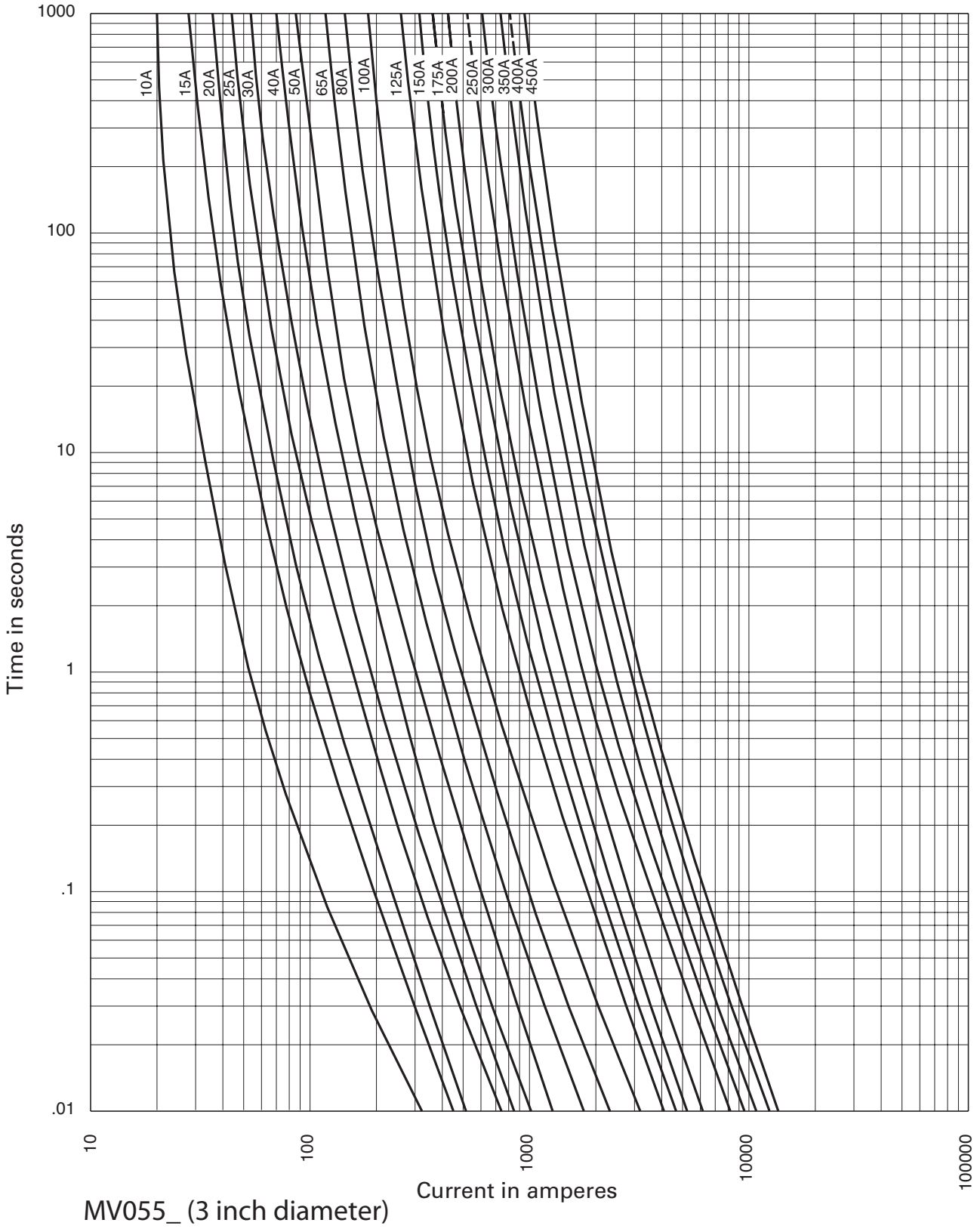
5.5kV time-current curves — minimum melt for MV055_ 2 inch diameter fuses



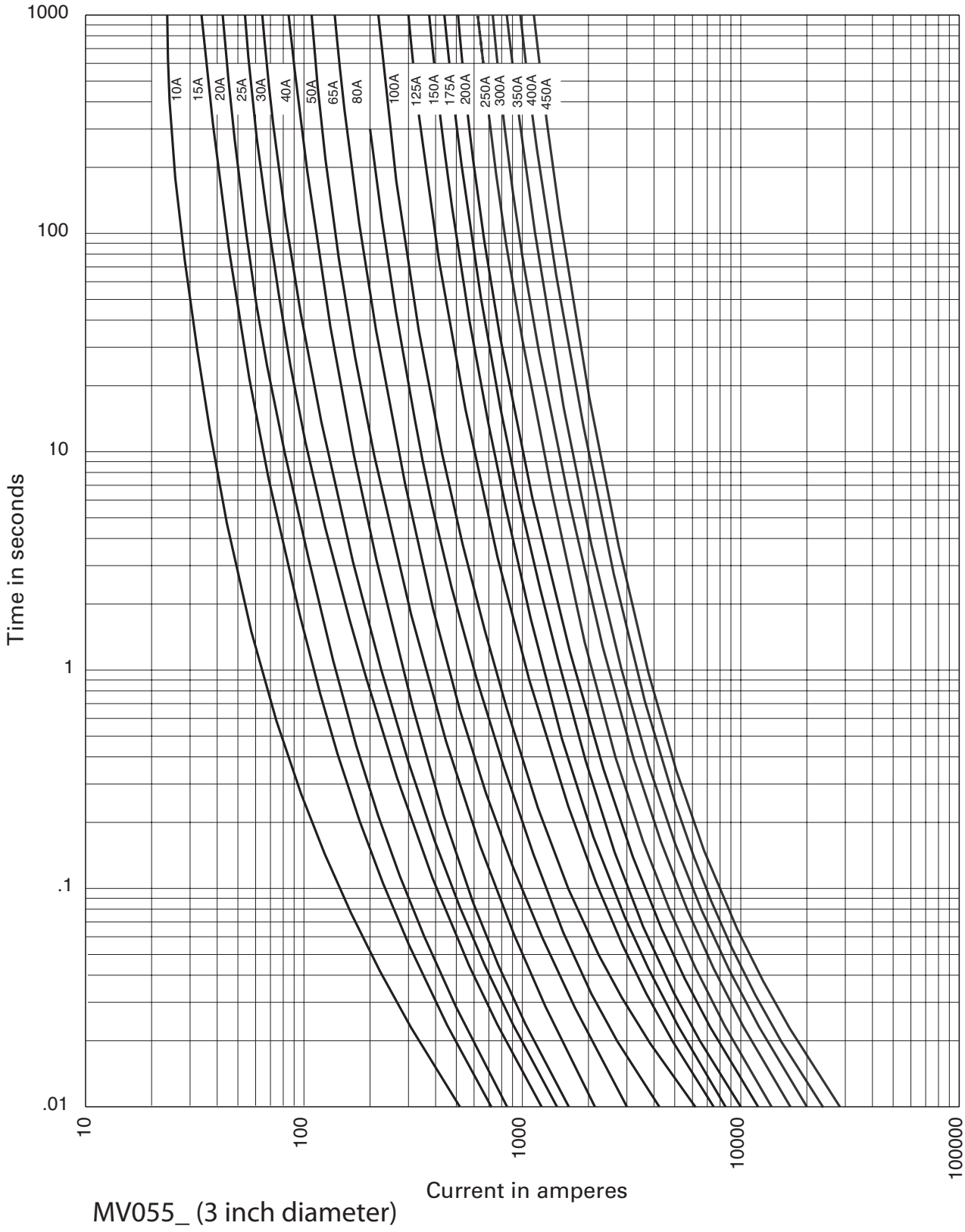
5.5kV time-current curves — total clear for MV055_ 2 inch diameter fuses



5.5kV time-current curves — minimum melt for MV055_ 3 inch diameter fuses

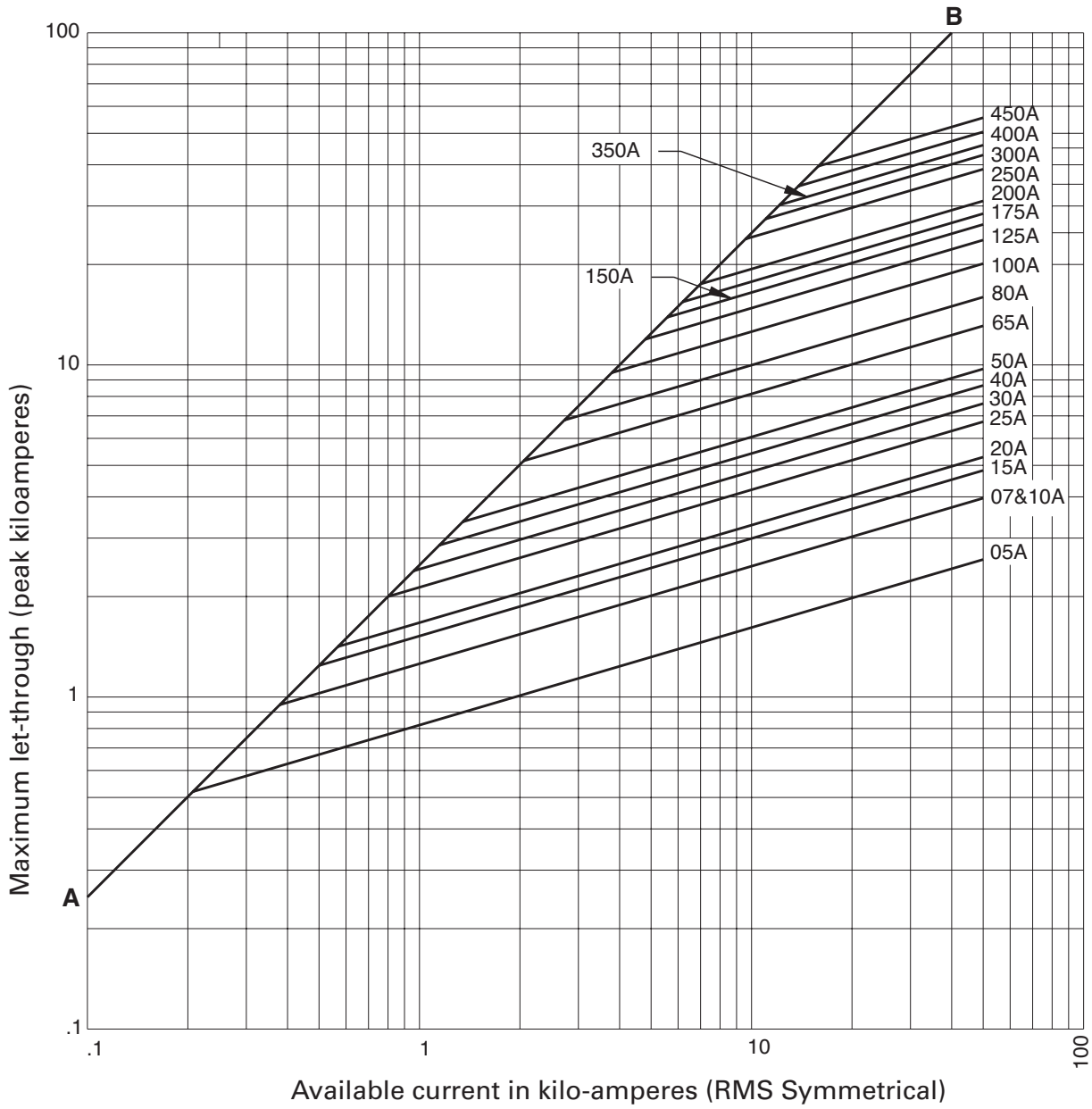


5.5kV time-current curves — total clear for MV055_ 3 inch diameter fuses



MV055_ (3 inch diameter)

5.5kV peak let-through for MV055_ 2 and 3 inch diameter fuses

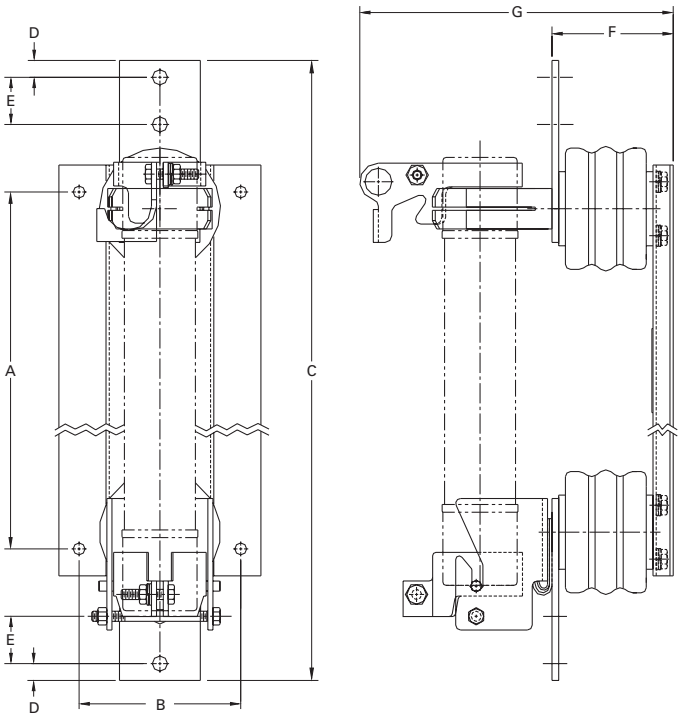


MV055_ (2 and 3 inch diameter)

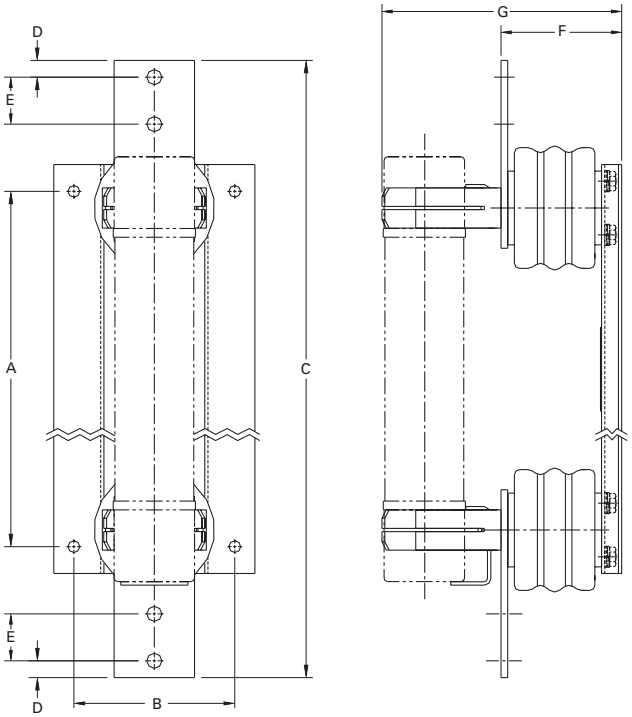
CLE and HLE type mountings - in (mm)

Catalog number	Hole centers A	B	Overall length C	Hole Inset D	Hole centers E	Contact height F	Overall height G	BIL kV
Disconnect single barrel†								
5CLE-GDM-C	12.74 (323.6)	6 (152.4)	25.5 (647.7)	0.75 (19)	1.75 (44.4)	4.5 (114.3)	9.75 (247.6)	60
5CLE-PDM-C	12.74 (323.6)	6 (152.4)	25.5 (647.7)	0.75 (19)	1.75 (44.4)	4.5 (114.3)	9.75 (247.6)	60
5CLE-GDM-D	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	11.72 (297.7)	60
5CLE-PDM-D	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	11.72 (297.7)	60
5HLE-GDM-D	16.25 (412.8)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	11.72 (297.7)	60
5HLE-PDM-D	16.25 (412.8)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	11.72 (297.7)	60
Disconnect double barrel†								
5CLE-GDM-E	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	15.28 (388.1)	60
5CLE-PDM-E	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	15.28 (388.1)	60
5HLE-GDM-E	16.25 (412.8)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	15.28 (388.1)	60
5HLE-PDM-E	16.25 (412.8)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	15.28 (388.1)	60
Non-disconnect single barrel								
5CLE-GNM-C	12.75 (323.8)	6 (152.4)	22 (558.8)	0.75 (19)	1.75 (44.4)	4.5 (114.3)	7.25 (184.1)	60
5CLE-PNM-C	12.75 (323.8)	6 (152.4)	22 (558.8)	0.75 (19)	1.75 (44.4)	4.5 (114.3)	7.25 (184.1)	60
5CLE-GNM-D	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	8.79 (223.3)	60
5CLE-PNM-D	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	8.79 (223.3)	60
5HLE-GNM-D	16.25 (412.7)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	8.79 (223.3)	60
5HLE-PNM-D	16.25 (412.7)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	8.79 (223.3)	60
Non-disconnect double barrel								
5CLE-GNM-E	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.42 (36.1)	4.5 (114.3)	12.48 (317)	60
5CLE-PNM-E	15.24 (387.1)	6 (152.4)	25 (635)	0.62 (15.7)	1.42 (36.1)	4.5 (114.3)	12.48 (317)	60
5HLE-GNM-E	16.25 (412.7)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	12.48 (317)	60
5HLE-PNM-E	16.25 (412.7)	6 (152.4)	23 (584.2)	0.62 (15.7)	1.75 (44.4)	4.5 (114.3)	12.48 (317)	60

CLE and HLE type disconnect mounting†



CLE and HLE type non-disconnect mounting



† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

E-Rated medium voltage specialty mount fuses

Catalog symbols:

- _AHLE-_E (for Eaton AMPGARD motor starting assemblies)
- _BHLE-_E/_BHCL-_E (bolt-on version)
- _HCL-_E (clip-lock version)

Ratings*:

- Volts
  - 5.5kV
- Amps
  - 10 to 900A
- Interrupting ratings
  - 31 to 63kA RMS Sym

* See catalog number tables for voltages, ampacities and interrupting ratings by catalog number.

Agency information:

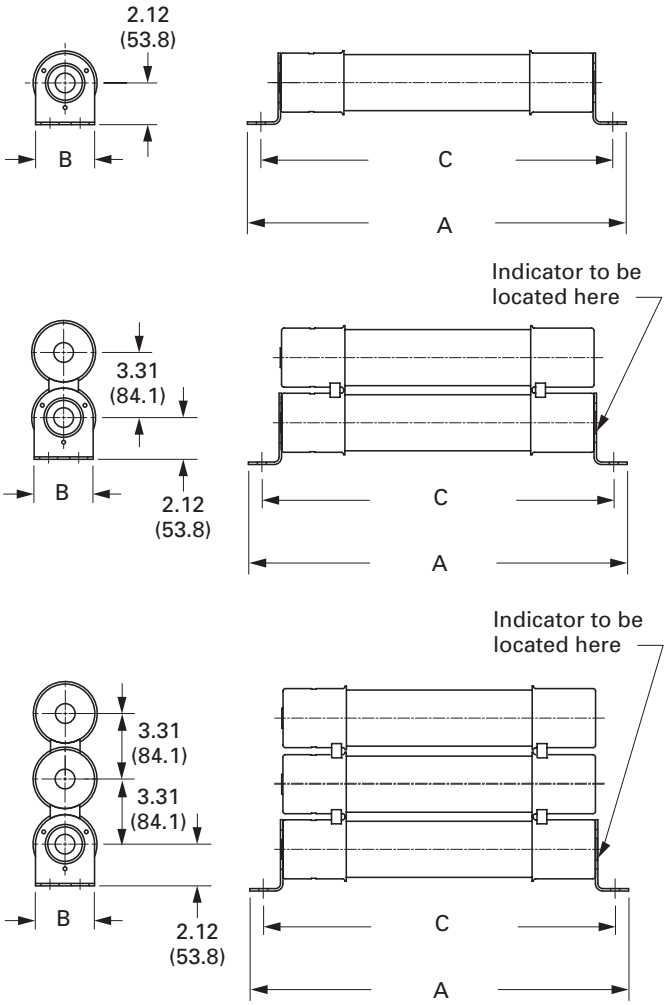
- E-Rated fuses meet the performance characteristics of ANSI C37.46

Recommended live parts for clip-lock fuses

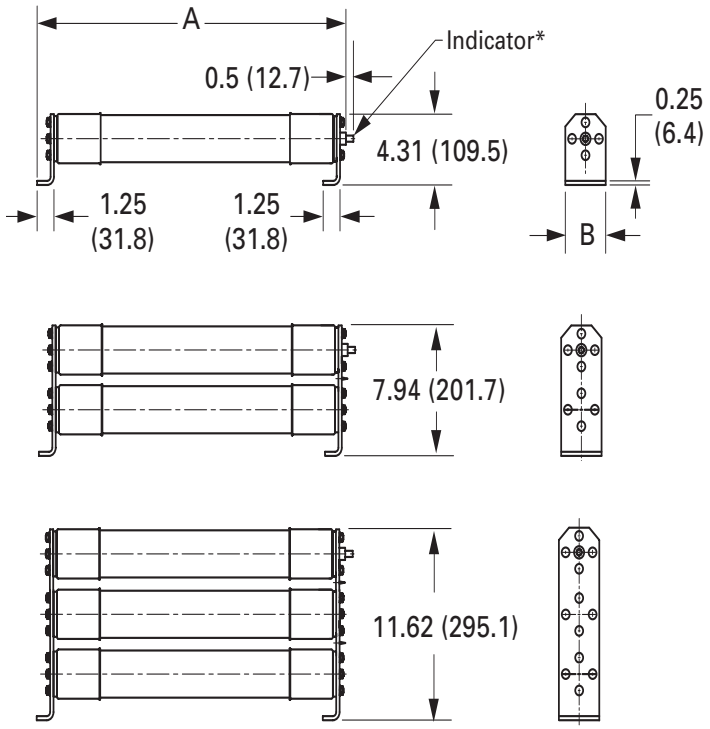
- Catalog number HCL-NL-1

Dimensions - in (mm)

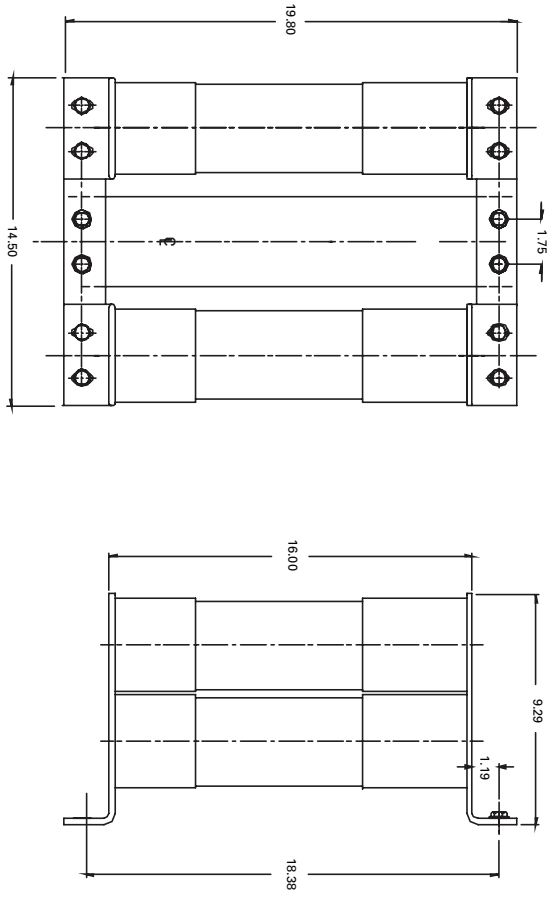
BHLE bolt-on



HCL clip-lock



CLE four barrel bolt-on



AHLE for Eaton AMPGARD motor starting assemblies

Amp rating	Interrupting rating kA (RMS Sym.)	Number of barrels	Catalog number
10	63	1	5AHLE-10E
15	63	1	5AHLE-15E
20	63	1	5AHLE-20E
25	63	1	5AHLE-25E
30	63	1	5AHLE-30E
40	63	1	5AHLE-40E†
50	63	1	5AHLE-50E†
65	63	1	5AHLE-65E†
80	63	1	5AHLE-80E†
100	63	1	5AHLE-100E†
125	63	1	5AHLE-125E†
150	63	1	5AHLE-150E†
175	63	1	5AHLE-175E†
200	63	1	5AHLE-200E†
250	63	1	5AHLE-250E†
300	63	2	5AHLE-300E†
350	63	2	5AHLE-350E†
400	63	2	5AHLE-400E†
450	63	2	5AHLE-450E†

† UL Listed, Guide JEEG, File E240398.

HCL clip-lock versions

	Dimensions - in (mm)			Interrupting rating kA (RMS Sym.)	Number of barrels	Installation location	Catalog number
Amp rating	Overall length A	Diameter B	Hole centers C				
10	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-10E
15	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-15E
20	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-20E
25	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-25E
30	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-30E
40	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-40E†
50	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-50E†
65	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-65E†
80	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-80E†
100	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-100E†
125	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-125E†
150	16.8 (427)	3 (76)	N/A	63	1	Indoor	5HCL-150E†
200	22.8 (579)	3 (76)	N/A	63	1	Indoor	5HCL-200E†
250	22.8 (579)	3 (76)	N/A	63	1	Indoor	5HCL-250E†
300	22.8 (579)	3 (76)	N/A	63	2	Indoor	5HCL-300E†
400	22.8 (579)	3 (76)	N/A	63	2	Indoor	5HCL-400E†
450	22.8 (579)	3 (76)	N/A	63	2	Indoor	5HCL-450E†
500	22.8 (579)	3 (76)	N/A	63	2	Indoor	5HCL-500E
600	22.8 (579)	3 (76)	N/A	63	2	Indoor	5HCL-600E
750	22.8 (579)	3 (76)	N/A	63	3	Indoor	5HCL-750E
900	22.8 (579)	3 (76)	N/A	63	3	Indoor	5HCL-900E

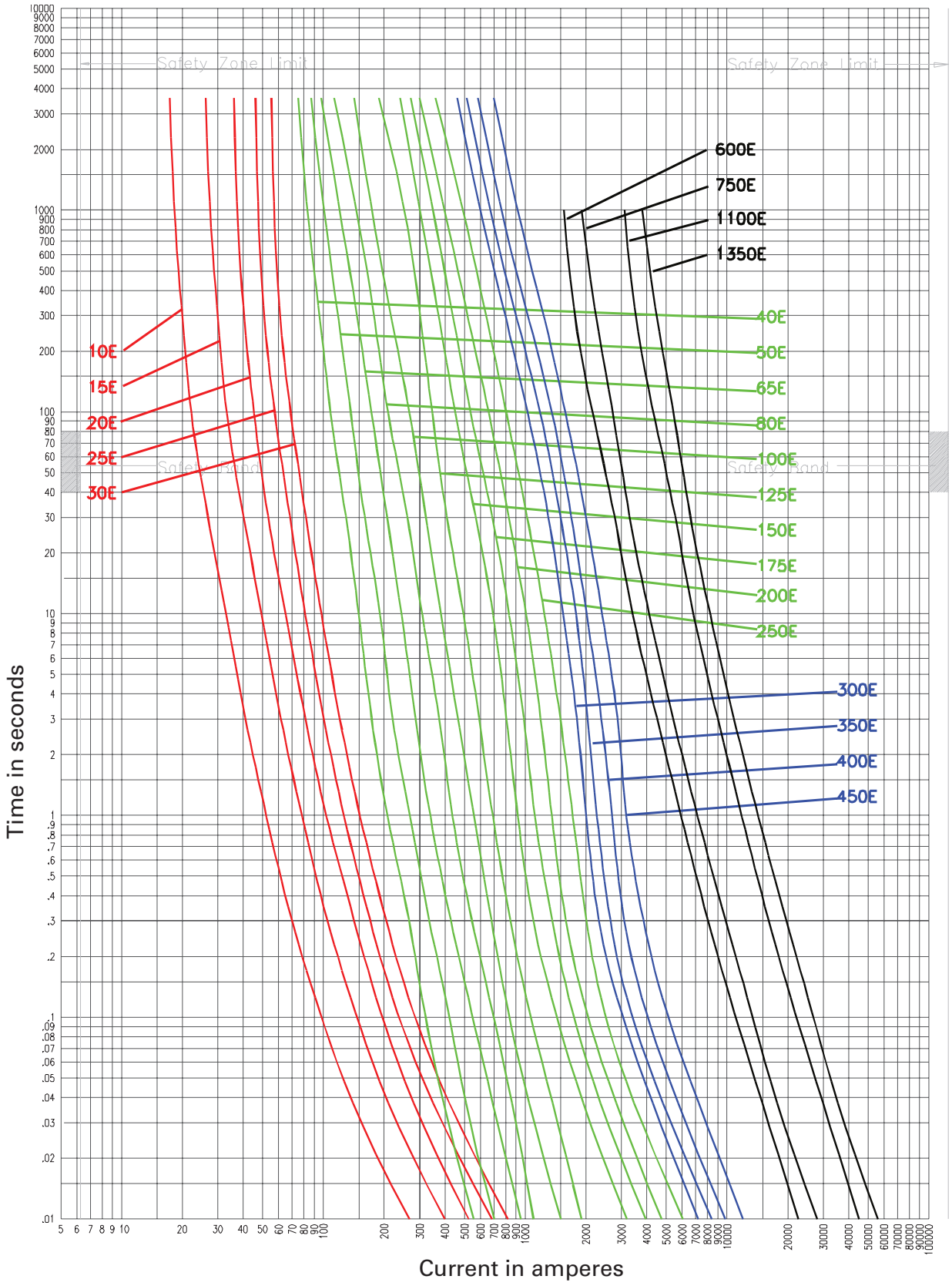
† UL Listed, Guide JEEG, File E240398.

CLE, BHLE and BHCL bolt-on versions

Amp rating	Dimensions - in (mm) Overall length A	Diameter B	Hole centers C	Interrupting rating kA (RMS Sym.)	Number of barrels	Installation location	Catalog number
10	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-10E
15	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-15E
20	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-20E
25	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-25E
30	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-30E
40	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-40E†
50	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-50E†
65	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-65E†
80	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-80E†
100	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-100E†
125	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-125E†
150	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-150E†
175	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-175E†
200	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-200E†
200	25.1 (637)	3 (76)	23.7 (602)	63	1	Indoor	5BHCL-200E
250	19.2 (488)	3 (76)	17.9 (455)	63	1	Indoor	5BHLE-250E†
250	25.1 (637)	3 (76)	23.7 (602)	63	1	Indoor	5BHCL-250E
300	19.2 (488)	3 (76)	17.9 (455)	63	2	Indoor	5BHLE-300E†
300	25.1 (637)	3 (76)	23.7 (602)	63	2	Indoor	5BHCL-300E
350	19.2 (488)	3 (76)	17.9 (455)	63	2	Indoor	5BHLE-350E†
400	19.2 (488)	3 (76)	17.9 (455)	63	2	Indoor	5BHLE-400E†
400	25.1 (637)	3 (76)	23.7 (602)	63	2	Indoor	5BHCL-400E
450	19.2 (488)	3 (76)	17.9 (455)	63	2	Indoor	5BHLE-450E†
450	25.1 (637)	3 (76)	23.7 (602)	63	2	Indoor	5BHCL-450E
500	25.1 (637)	3 (76)	23.7 (602)	63	2	Indoor	5BHCL-500E
600	25.1 (637)	3 (76)	23.7 (602)	63	2	Indoor	5BHCL-600E
600	28.9 (734)	4 (102)	18.4 (467)	40	2	Indoor	5CLE-600E
750	25.1 (637)	3 (76)	23.7 (602)	63	3	Indoor	5BHCL-750E
750	28.9 (734)	4 (102)	18.4 (467)	40	2	Indoor	5CLE-750E
900	25.1 (637)	3 (76)	23.7 (602)	63	3	Indoor	5BHCL-900E
1100	19.8 (503)	4 (102)	18.4 (467)	31	4	Indoor	5CLE-1100E
1350	19.8 (503)	4 (102)	18.4 (467)	31	4	Indoor	5CLE-1350E

† UL Listed, Guide JEEG, File E240398.

5.5kV time-current curves — minimum melt for 5CLE-_E and 5CLE-_-D



5CLE-_

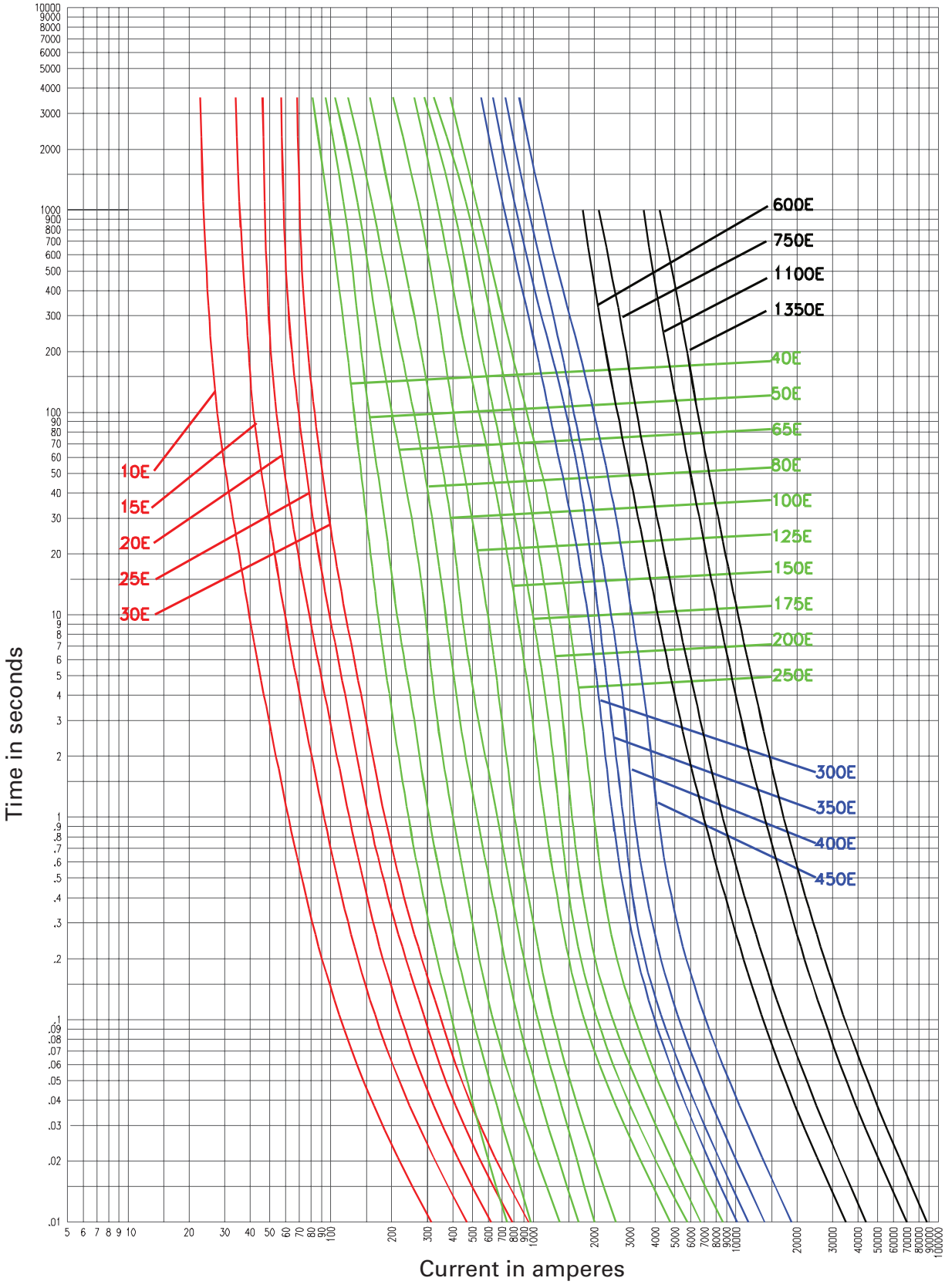
Curve 70548501
April 16, 1999
Reference # 563532

Curve 70545801
April 16, 1999
Reference # 705458

Curve 70546001
April 20, 1999
Reference # 705460

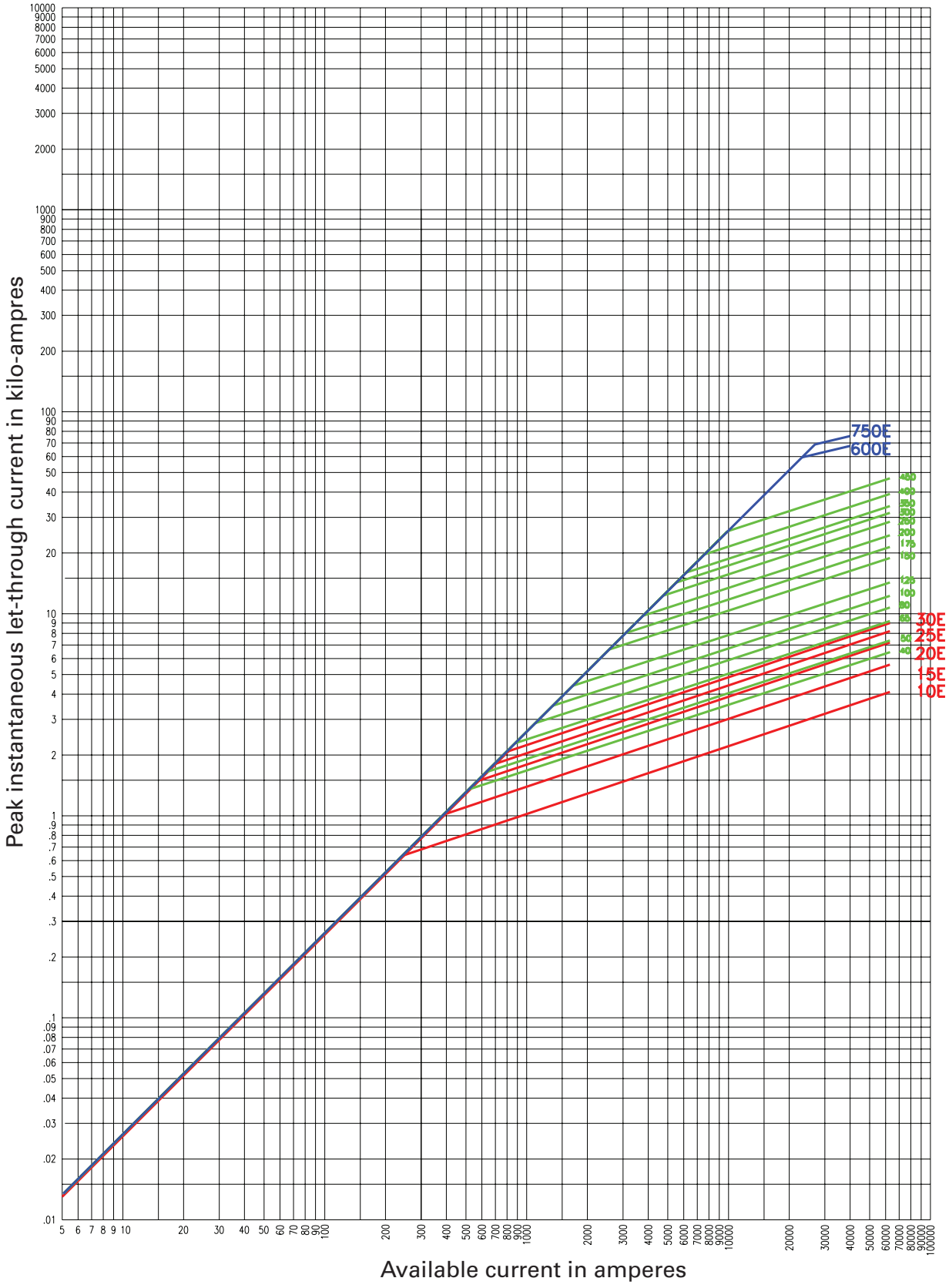
Curve 62908902
April 1999
Reference # 629089

5.5kV time-current curves — total clear for 5CLE-_E and 5CLE-_-D



5CLE-_	Curve 70548702 April 16, 1999 Reference # 563533	Curve 70545901 April 20, 1999 Reference # 705459	Curve 70546101 April 20, 1999 Reference # 705461	Curve 62908903 April 1999 Reference # 629089

5.5kV peak let-through for 5CLE-_E and 5CLE-_-D



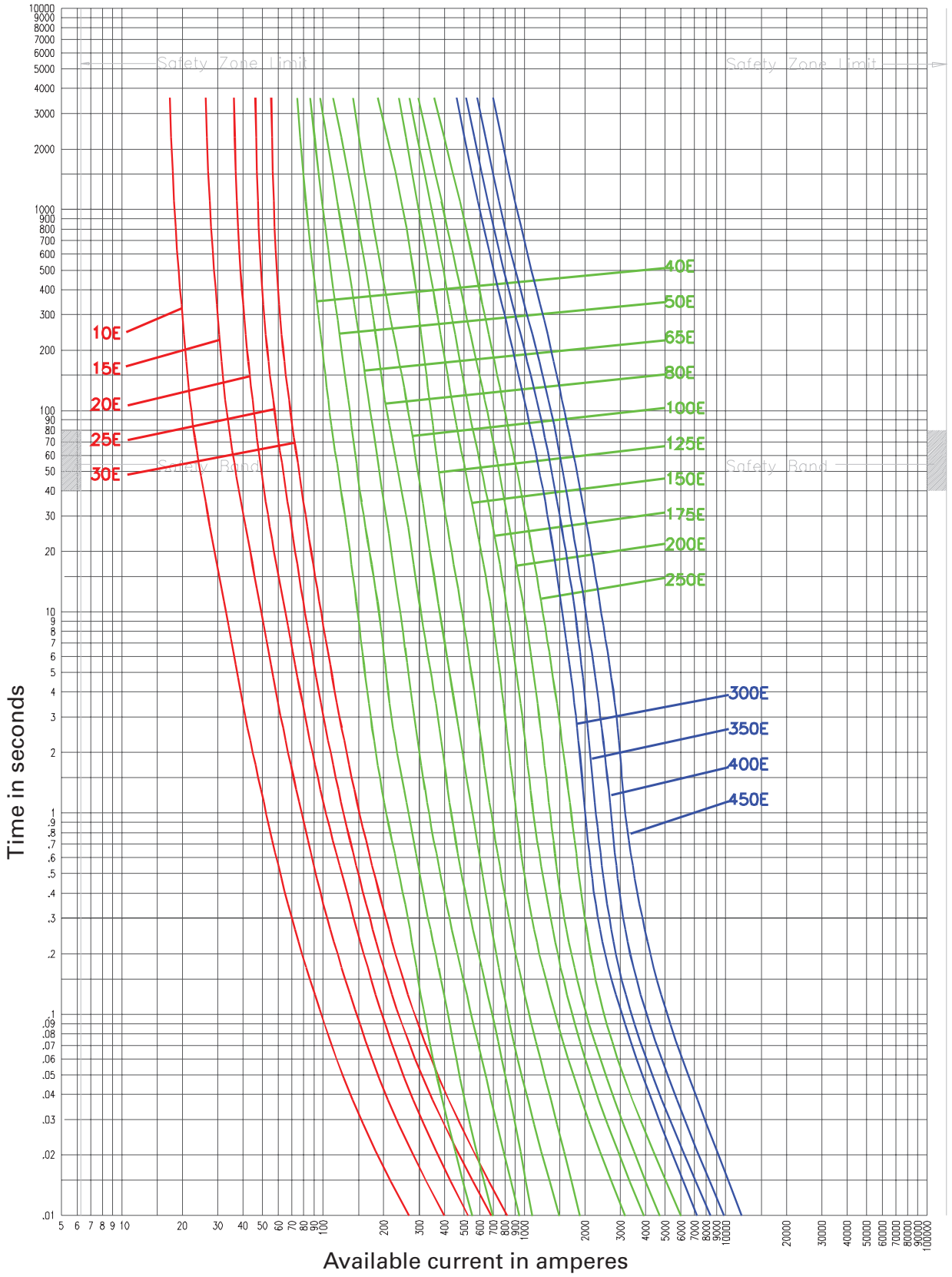
5CLE-_

Curve 70548701
April 1999
Reference # 705487

Curve 70547601
April 1999
Reference # 705476

Curve 62908904
April 1999
Reference # 629089

5.5kV time-current curves — minimum melt for 5HLE-_E, 5AHLE-_E and 5BHLE-_E



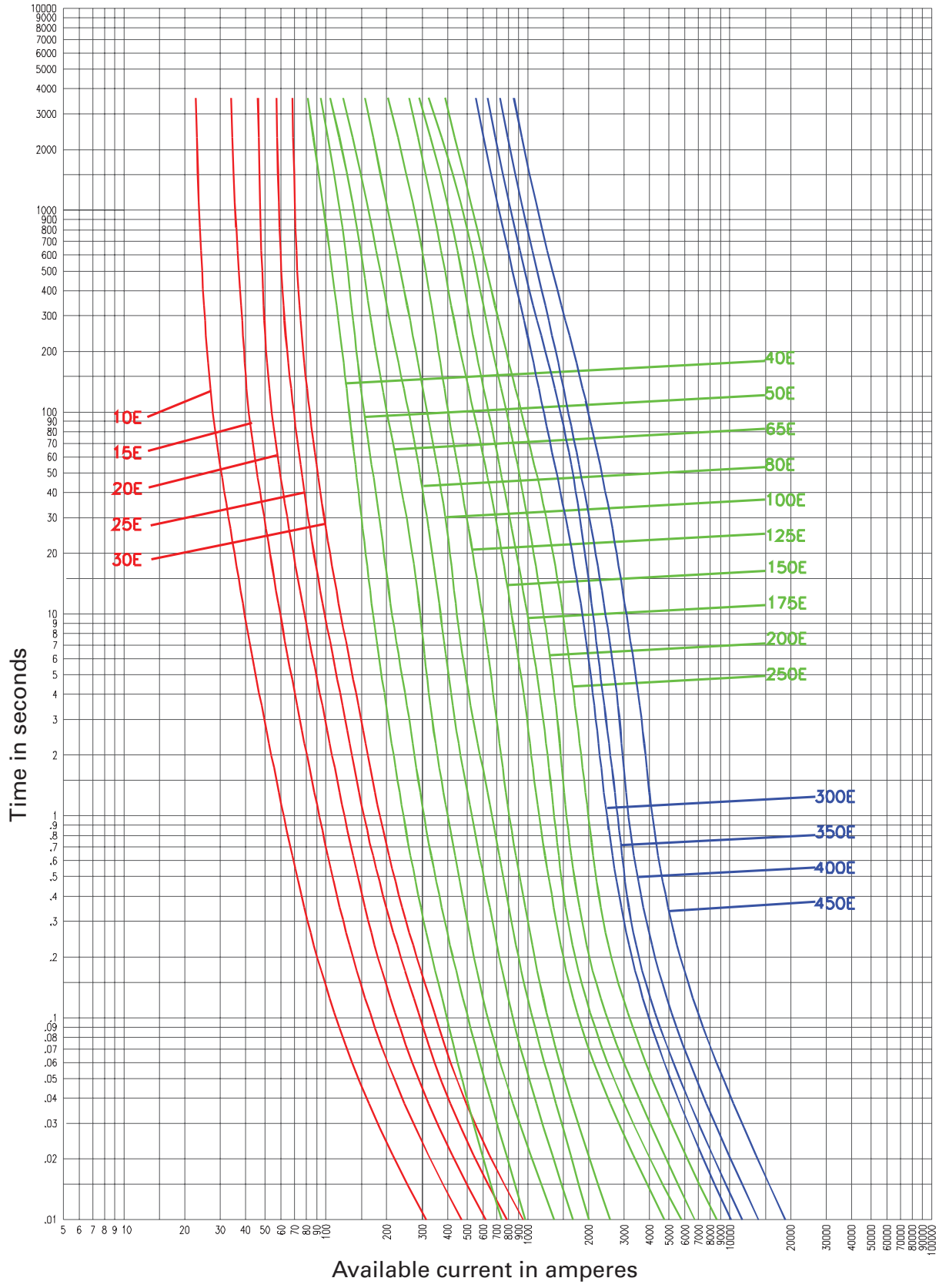
5HLE-_, 5BHLE-_, 5AHLE-_

Curve 70548507
April 16, 1999
Reference # 563532

Curve 70545805
April 16, 1999
Reference # 705458

Curve 70546005
April 20, 1999
Reference # 705460

5.5kV time-current curves — total clear for 5HLE-_E, 5AHLE-_E and 5BHLE-_E



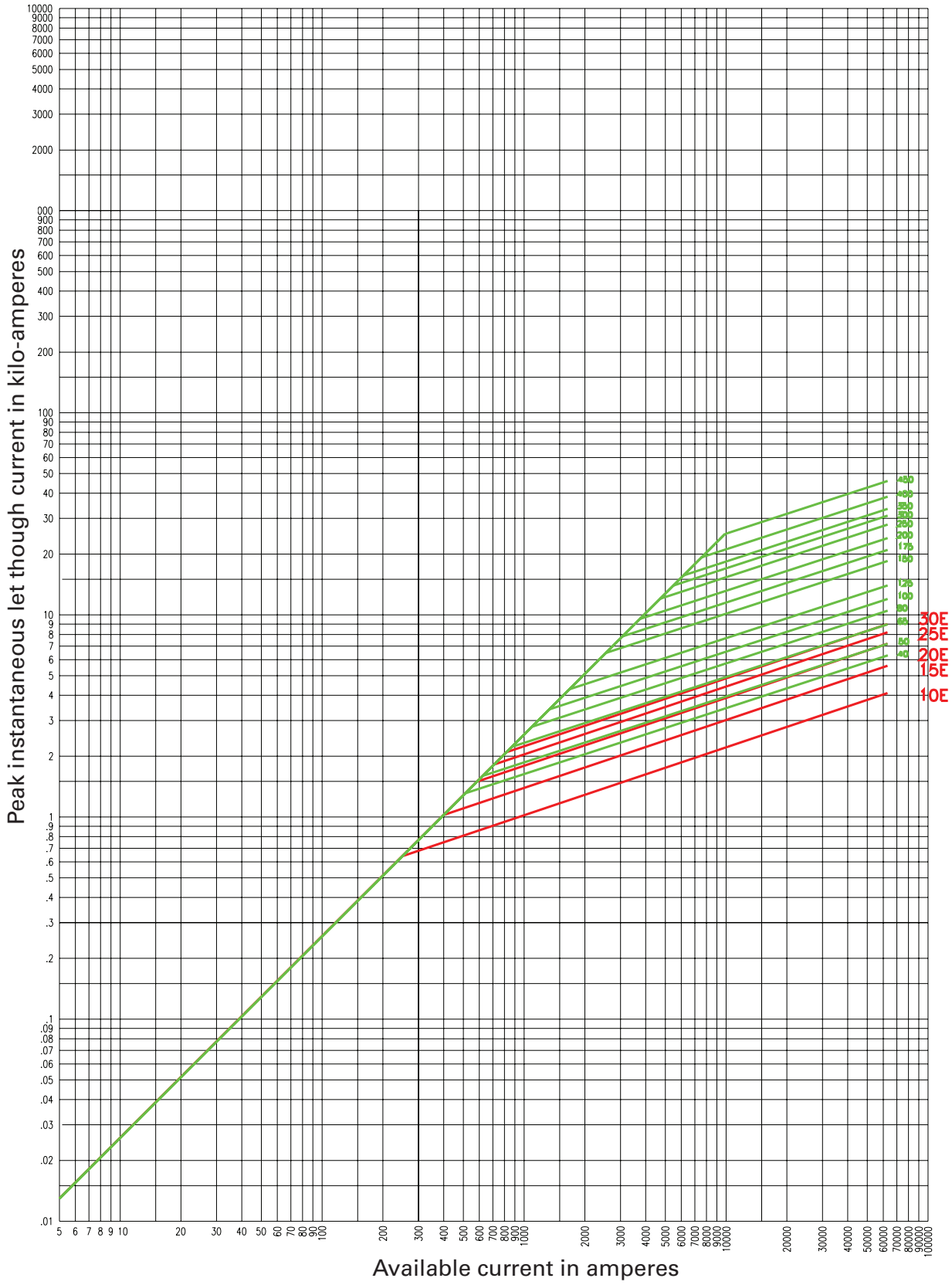
5HLE-_, 5BHLE-_, 5AHLE-_

Curve 70548607
April 16, 1999
Reference # 563533

Curve 70545905
April 20, 1999
Reference # 705459

Curve 70546105
April 20, 1999
Reference # 705461

5.5kV peak let-through for 5HLE-_E, 5AHLE-_E and 5BHLE-_E

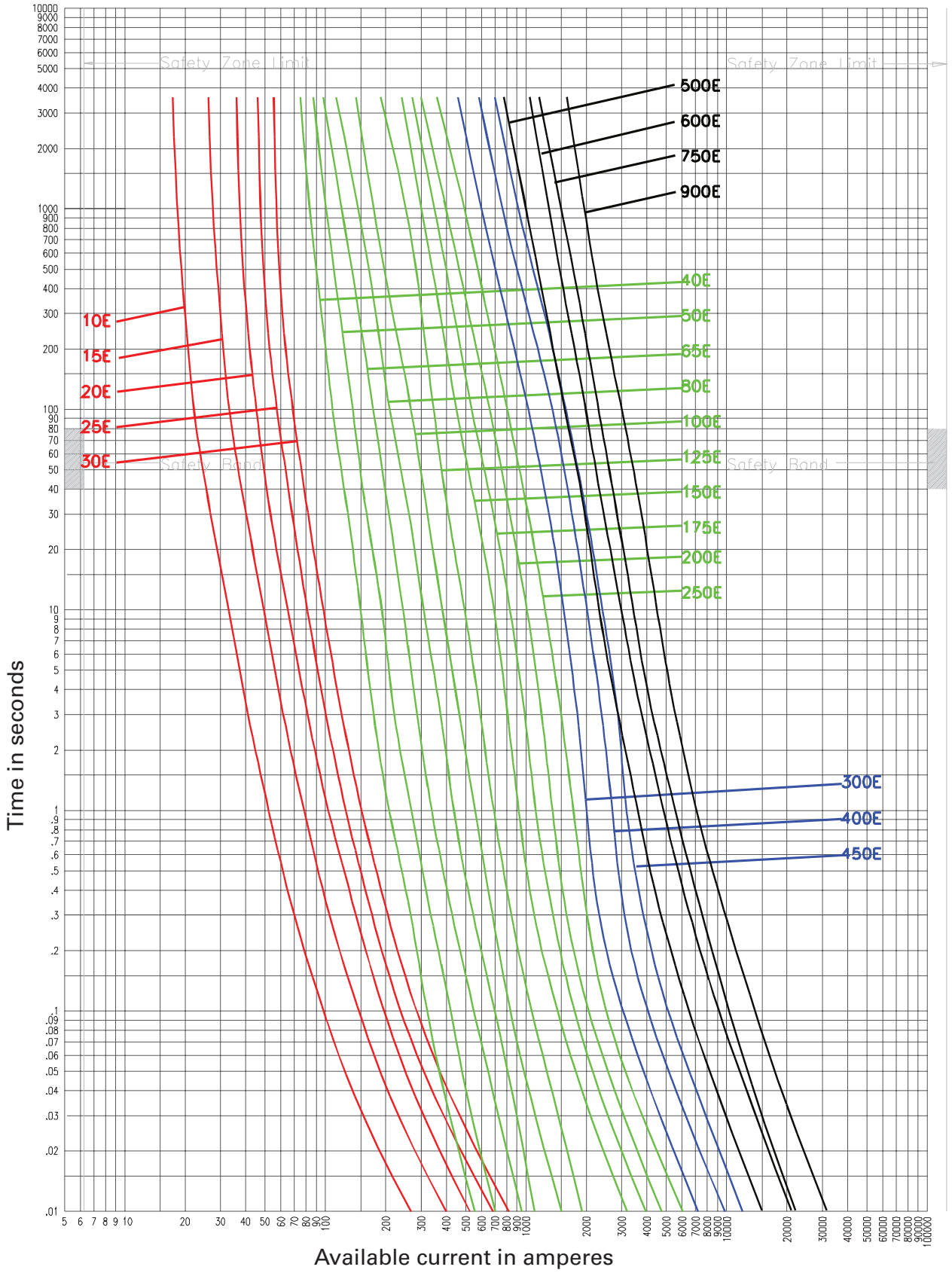


5HLE-_, 5BHLE-_, 5AHLE-_

Curve 70548703
April 1999
Reference # 705487

Curve 70547603
April 1999
Reference # 705476

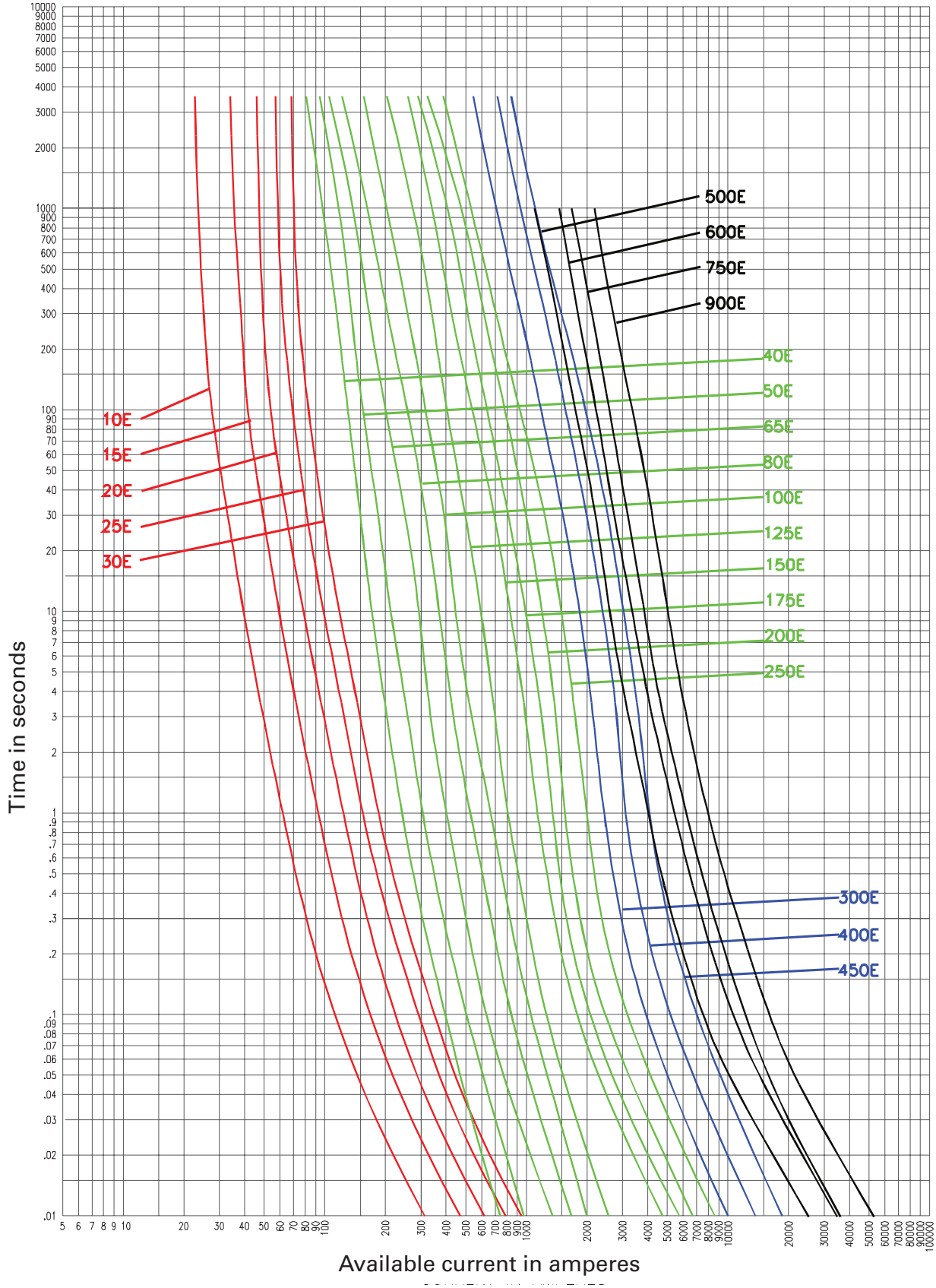
5.5kV time-current curves — minimum melt for 5HCL-_E



5HCL-_

Curve 70548505 Janaury 2001
Curve 70545803 January 2001
Curve 70546003 April 2001
Curve 66703401 Janaury 2001

5.5kV time-current curves — total clear for 5HCL-_E



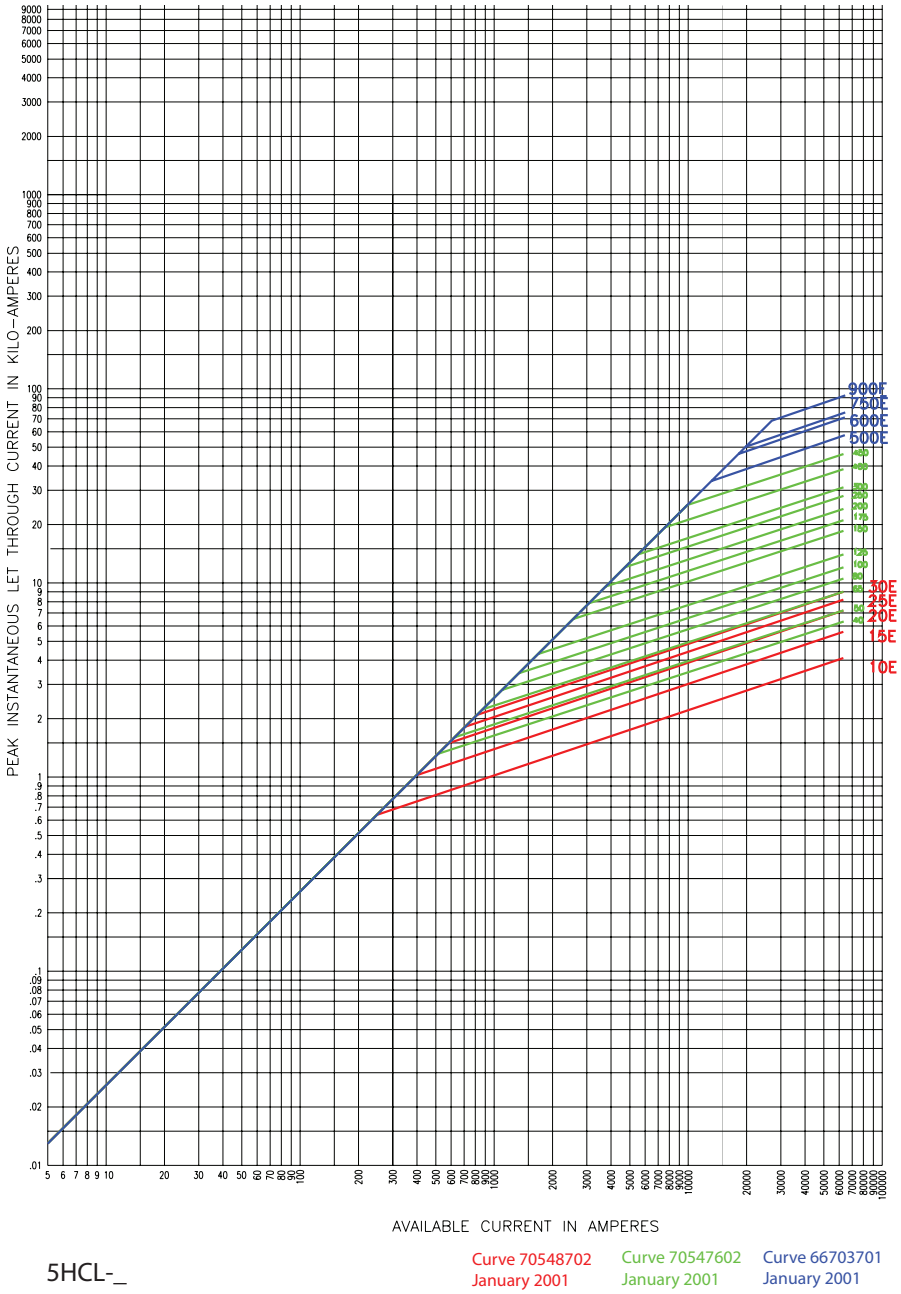
5HCL-_

Curve 70548605
Janaury 2001

Curve 70545903
Janaury 2001

Curve 70516103
Janaury 2001

Curve 66703501
Janaury 2001



5HCL-_

Curve 70548702 January 2001
Curve 70547602 January 2001
Curve 66703701 January 2001

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