Cutler-Hammer

Cutler-Hammer
Five Parkway Center
Pittsburgh, Pennsylvania, U.S.A. 15220

April 1998

Time/Current Characteristic Curves for Series C® G-Frame Circuit Breakers

AB DE-ION® Circuit Breakers

Voltages shown in curve headings are maximum at which the breaker may be applied. Interrupting capacity of individual breaker is tabulated on each curve.

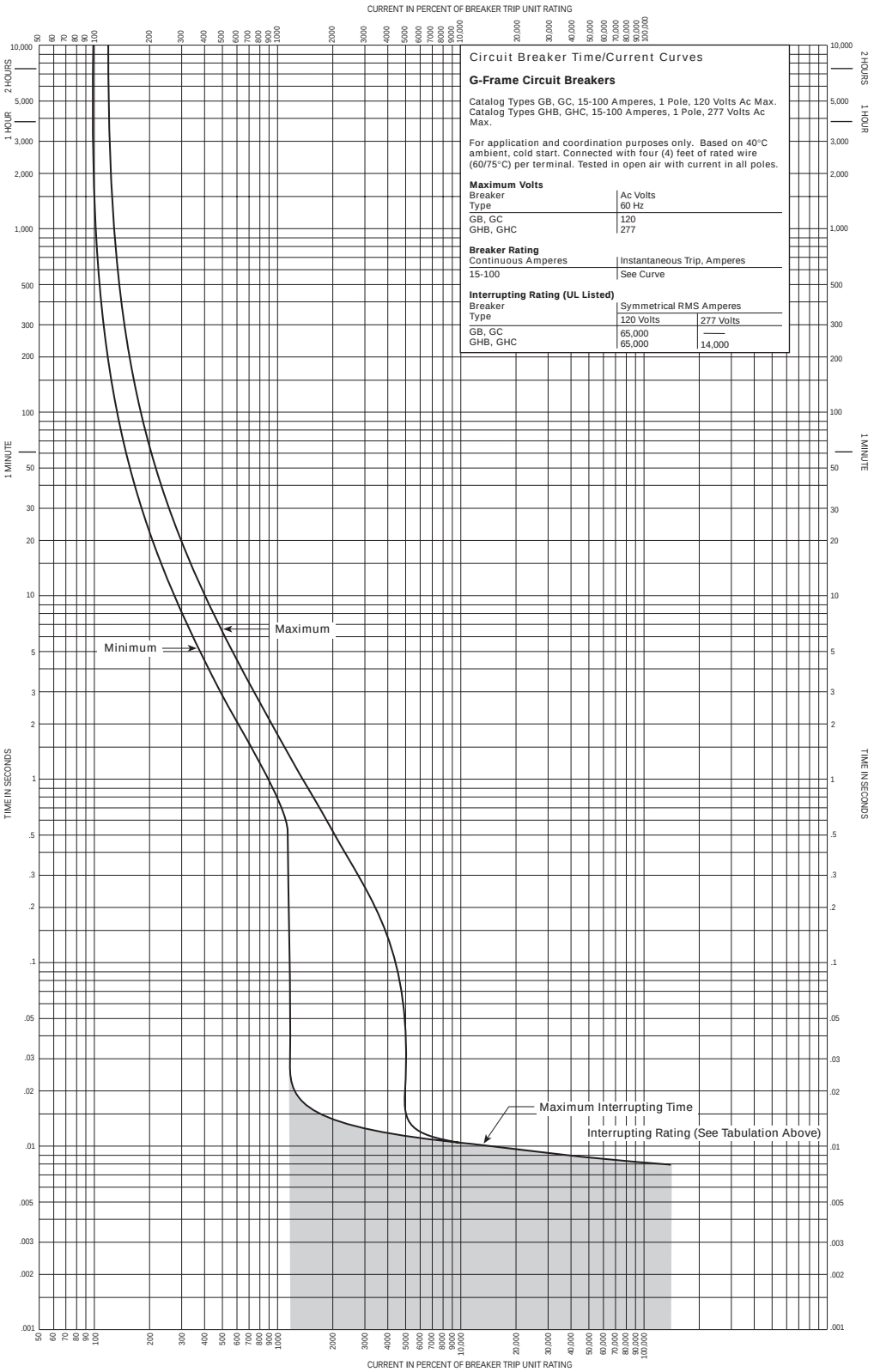
Breaker Description	Curve No.	Page
Types GB, GHB, GC, GHC 15-100 Amperes, 1 Pole	SC-3500-83B	2
Types GB, GHB, GC, GHC 15-100 Amperes, 2, 3 Poles	SC-3501-83B	3
Type GD 15-100 Amperes, 2, 3 Poles	SC-6030-95	4
Types GHBGFEP, GHCGFEP 15-60 Amperes, 2 Pole	SC-6759-97	5
Types GHBS and GBHS 15-30 Amperes, 1, 2 Poles	SC-5695-93B	6

Individual oversize copies of curves listed above printed on onion-skin paper are available in limited quantity from:
Cutler-Hammer
Five Parkway Center
Pittsburgh, PA 15220

When ordering onion-skin curves, use number at bottom of page where curve appears, i.e., SC-3500-83B. **Requests for full sets of curves will not be honored.**

AB DE-ION Circuit Breakers

Types GB, GHB, GC, GHC 15-100 Amperes, 1 Pole



Circuit Breaker Time/Current Curves

G-Frame Circuit Breakers

Catalog Types GB, GC, 15-100 Amperes, 1 Pole, 120 Volts Ac Max.
Catalog Types GHB, GHC, 15-100 Amperes, 1 Pole, 277 Volts Ac Max.

For application and coordination purposes only. Based on 40°C ambient, cold start. Connected with four (4) feet of rated wire (60/75°C) per terminal. Tested in open air with current in all poles.

Maximum Volts

Breaker Type	Ac Volts 60 Hz
GB, GC	120
GHB, GHC	277

Breaker Rating

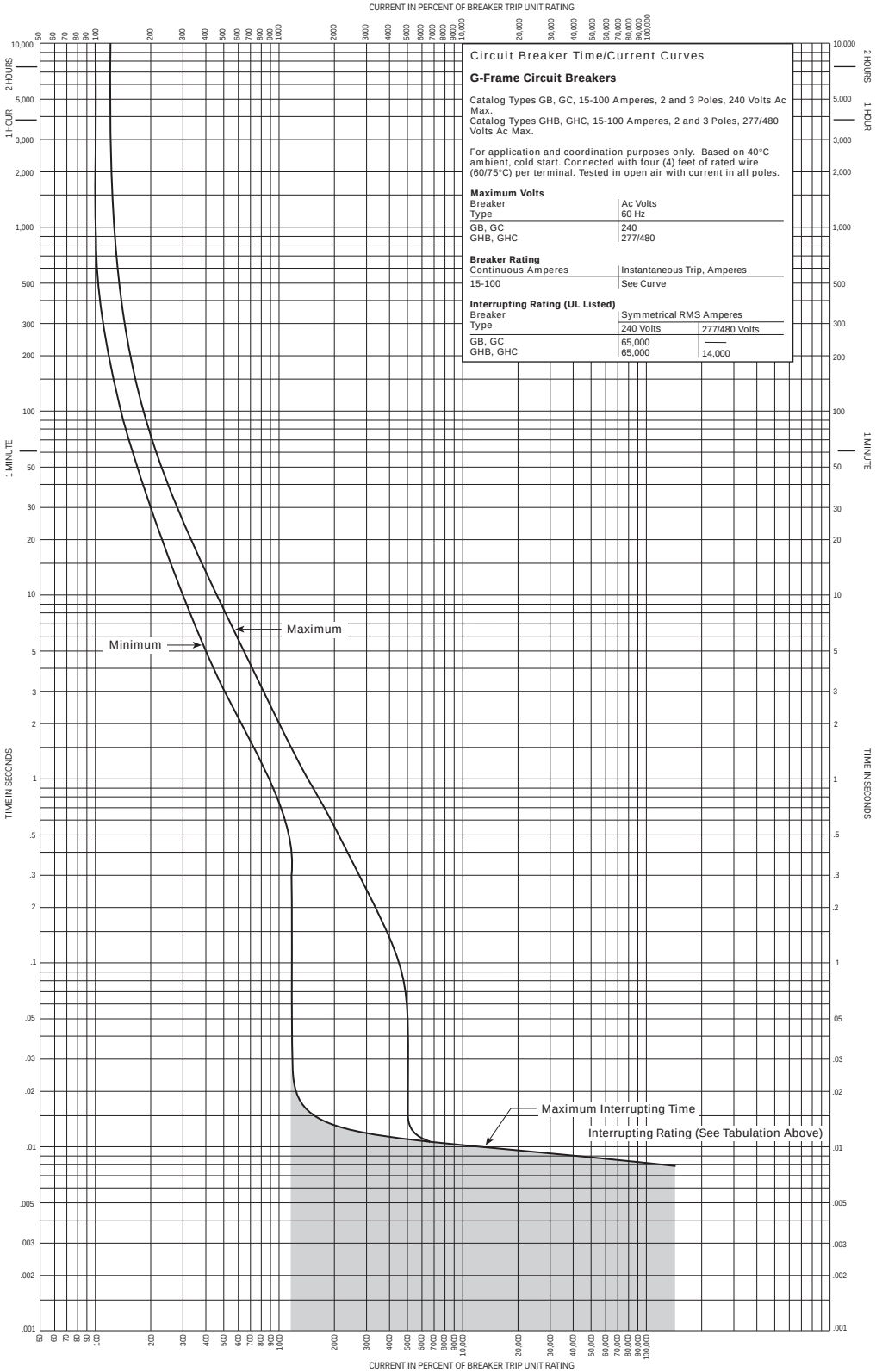
Continuous Amperes	Instantaneous Trip, Amperes
15-100	See Curve

Interrupting Rating (UL Listed)

Breaker Type	Symmetrical RMS Amperes	
	120 Volts	277 Volts
GB, GC	65,000	——
GHB, GHC	65,000	14,000

AB DE-ION Circuit Breakers

Types GB, GHB, GC, GHC 15-100 Amperes, 2 and 3 Poles



Circuit Breaker Time/Current Curves

G-Frame Circuit Breakers

Catalog Types GB, GC, 15-100 Amperes, 2 and 3 Poles, 240 Volts Ac Max.
Catalog Types GHB, GHC, 15-100 Amperes, 2 and 3 Poles, 277/480 Volts Ac Max.

For application and coordination purposes only. Based on 40°C ambient, cold start. Connected with four (4) feet of rated wire (60/75°C) per terminal. Tested in open air with current in all poles.

Maximum Volts

Breaker Type	Ac Volts 60 Hz
GB, GC	240
GHB, GHC	277/480

Breaker Rating

Continuous Amperes	Instantaneous Trip, Amperes
15-100	See Curve

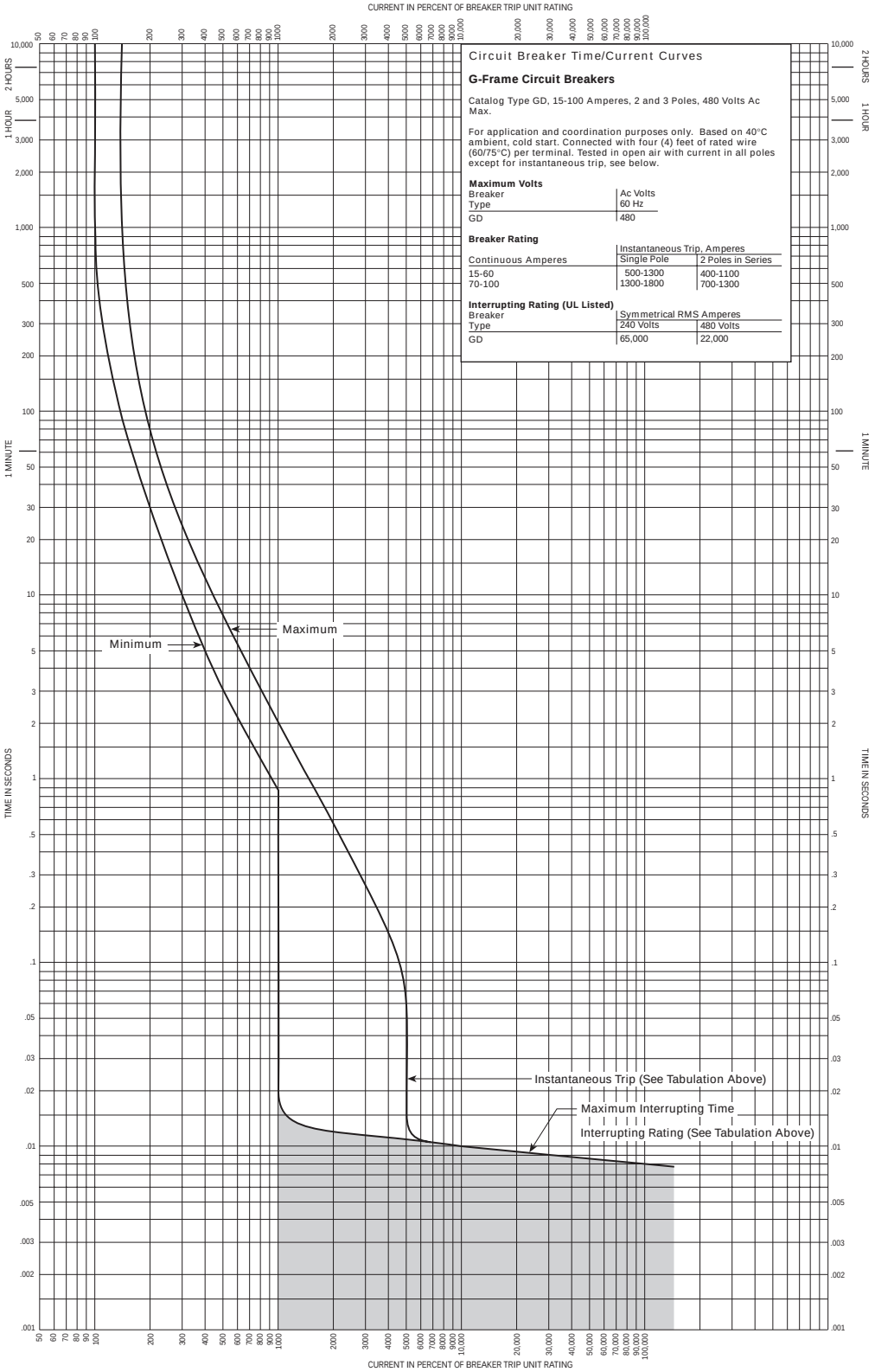
Interrupting Rating (UL Listed)

Breaker Type	Symmetrical RMS Amperes	
	240 Volts	277/480 Volts
GB, GC	65,000	——
GHB, GHC	65,000	14,000

Curve No. SC-3501-83B

AB DE-ION Circuit Breakers

Type GD 15-100 Amperes, 2 and 3 Poles



Circuit Breaker Time/Current Curves

G-Frame Circuit Breakers

Catalog Type GD, 15-100 Amperes, 2 and 3 Poles, 480 Volts Ac Max.

For application and coordination purposes only. Based on 40°C ambient, cold start. Connected with four (4) feet of rated wire (60/75°C) per terminal. Tested in open air with current in all poles except for instantaneous trip, see below.

Maximum Volts

Breaker Type	Ac Volts 60 Hz
GD	480

Breaker Rating

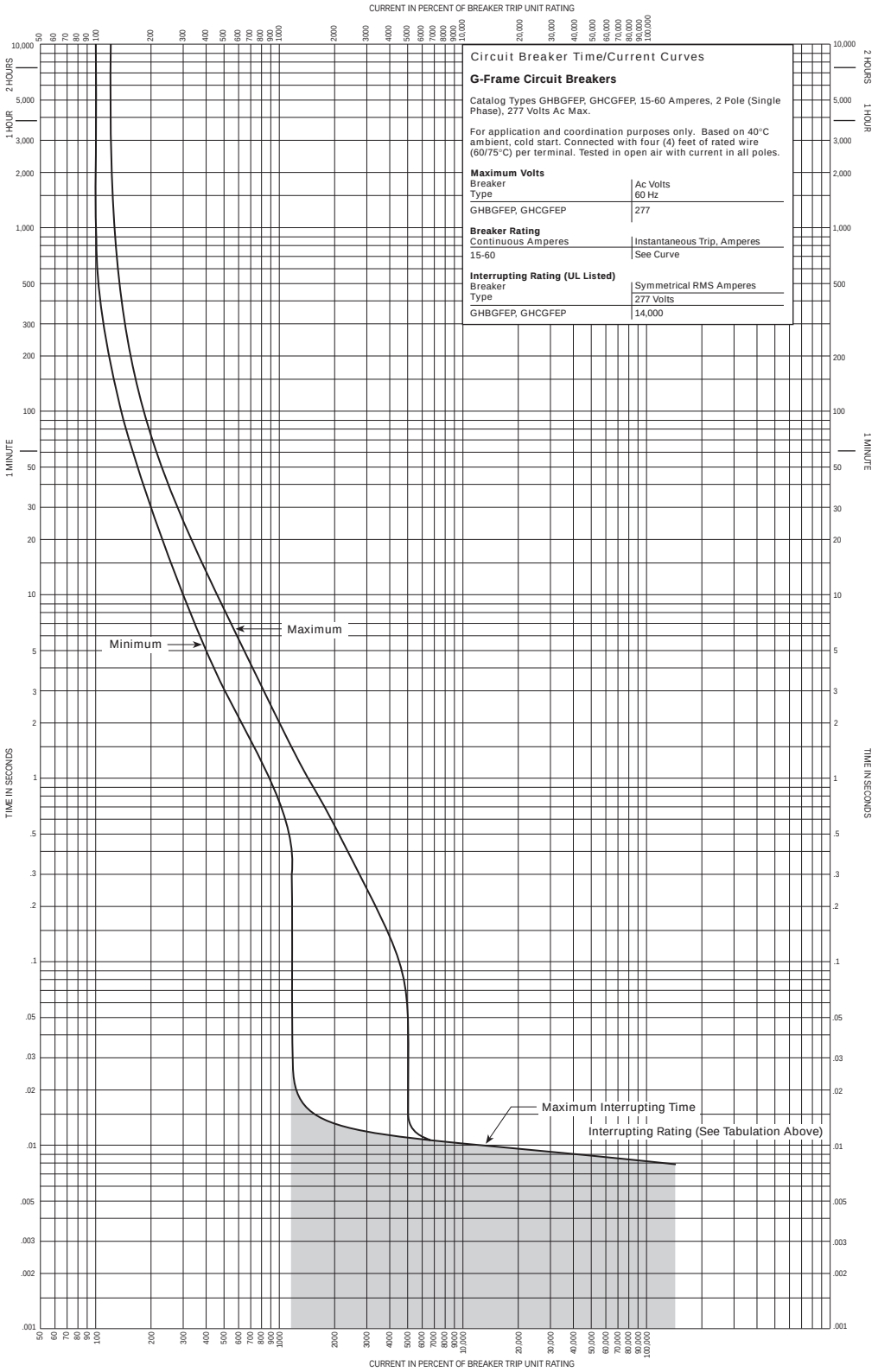
Continuous Amperes	Instantaneous Trip, Amperes: Single Pole	Instantaneous Trip, Amperes: 2 Poles in Series
15-60	500-1300	400-1100
70-100	1300-1800	700-1300

Interrupting Rating (UL Listed)

Breaker Type	Symmetrical RMS Amperes: 240 Volts	Symmetrical RMS Amperes: 480 Volts
GD	65,000	22,000

AB DE-ION Circuit Breakers

Types GHBGFEP, GHCGFEP 15-60 Amperes, 2 Pole (Single Phase)



Circuit Breaker Time/Current Curves

G-Frame Circuit Breakers

Catalog Types GHBGFEP, GHCGFEP, 15-60 Amperes, 2 Pole (Single Phase), 277 Volts Ac Max.

For application and coordination purposes only. Based on 40°C ambient, cold start. Connected with four (4) feet of rated wire (60/75°C) per terminal. Tested in open air with current in all poles.

Maximum Volts

Breaker Type	Ac Volts 60 Hz
GHBGFEP, GHCGFEP	277

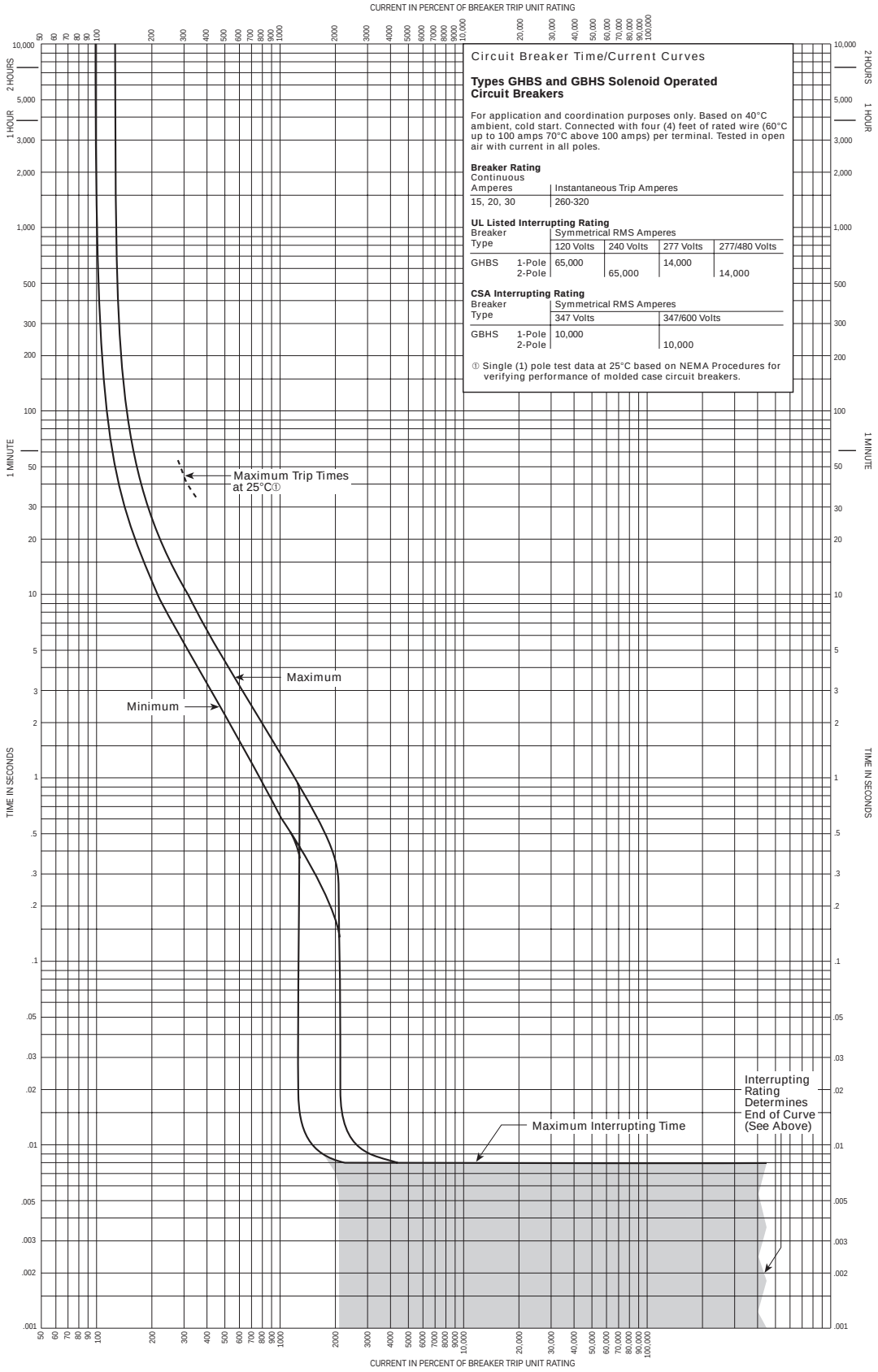
Breaker Rating

Continuous Amperes	Instantaneous Trip, Amperes
15-60	See Curve

Interrupting Rating (UL Listed)

Breaker Type	Symmetrical RMS Amperes 277 Volts
GHBGFEP, GHCGFEP	14,000

Type GHBS 15-30 Amperes, 1, 2 Poles



Circuit Breaker Time/Current Curves

Types GHBS and GBHS Solenoid Operated Circuit Breakers

For application and coordination purposes only. Based on 40°C ambient, cold start. Connected with four (4) feet of rated wire (60°C up to 100 amps 70°C above 100 amps) per terminal. Tested in open air with current in all poles.

Breaker Rating

Continuous Amperes	Instantaneous Trip Amperes
15, 20, 30	260-320

UL Listed Interrupting Rating

Breaker Type		Symmetrical RMS Amperes			
		120 Volts	240 Volts	277 Volts	277/480 Volts
GHBS	1-Pole	65,000		14,000	
	2-Pole		65,000		14,000

CSA Interrupting Rating

Breaker Type		Symmetrical RMS Amperes	
		347 Volts	347/600 Volts
GBHS	1-Pole	10,000	
	2-Pole		10,000

① Single (1) pole test data at 25°C based on NEMA Procedures for verifying performance of molded case circuit breakers.

Curve No. SC 5695-93B