

Time current curves, Power Defense Motor circuit protectors (MCP) Frame size 1, 2, 3 magnetic only Standards: UL, CSA, IEC, CCC

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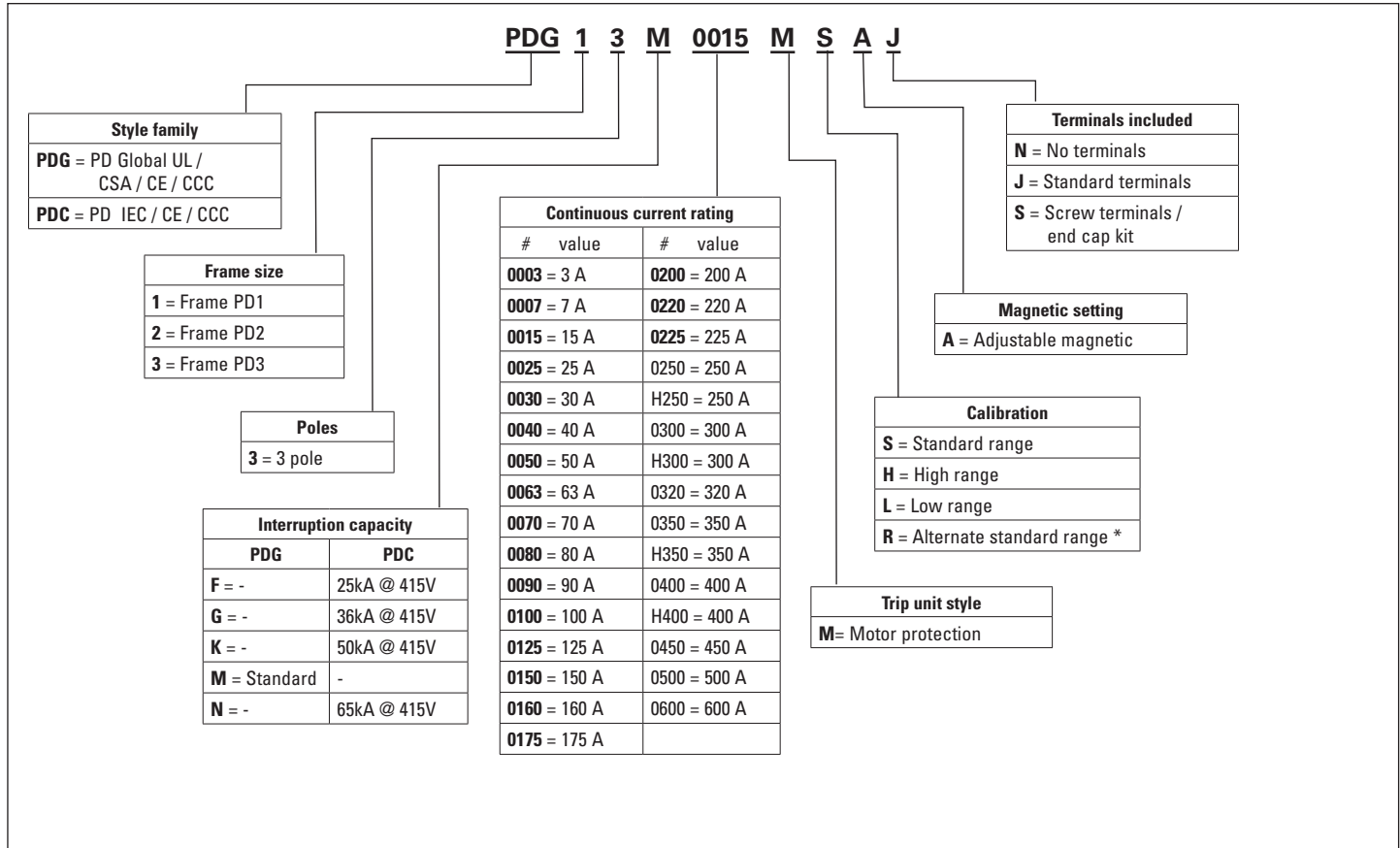
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Table 1. Revision list

Revision	Figure number	Page	Date
1. Power Defense MCP curves initial release			10/01/2019

Table 2. Catalog number convention



* Applies to PDG2 ONLY.

Note: IEC standard breakers include the CE mark; GB standard breakers include the CCC mark.

This information is provided only as an aid to understand the catalog numbers.

It is not to be used to build catalog numbers for circuit breakers or trip units as all combinations may not be available.

Table 3. Continuous current rating by frame

Continuous current rating by frame						
	PDG1	PDG2	PDG3	PDC1	PDC2	PDC3
0003	X	X				
0007	X	X				
0015	X	X				
0025		X				
0030	X	X				
0040				X		
0050	X	X		X		
0063				X		
0070	X	X	X			
0080				X		
0090					X	
0100	X	X	X	X		
0125			X		X	
0150		X	X			
0160					X	
0175			X			
0200			X		X	
0220			X			X
0225			X			
0250			X			
H250			X			
0300			X			
H300			X			
0320						X
0350			X			
H350			X			
0400			X			X
H400			X			
0450			X			
0500			X			

Current in RMS amperes

Table 4. Curve notes

1. These curves apply for 50Hz and 60Hz applications.
2. The maximum voltage rating for the frame style is stated in curve.
3. These curves are comprehensive for Power Defense style motor circuit protectors including frame sizes, ratings and constructions stated.
4. The total clearing times shown include the response time for the trip unit, the breaker opening and the interruption of the current.
5. The end of the curve is determined by the application or the interrupting rating of the circuit protector.
6. All current values are in RMS amperes.

PD1 motor circuit protector curves

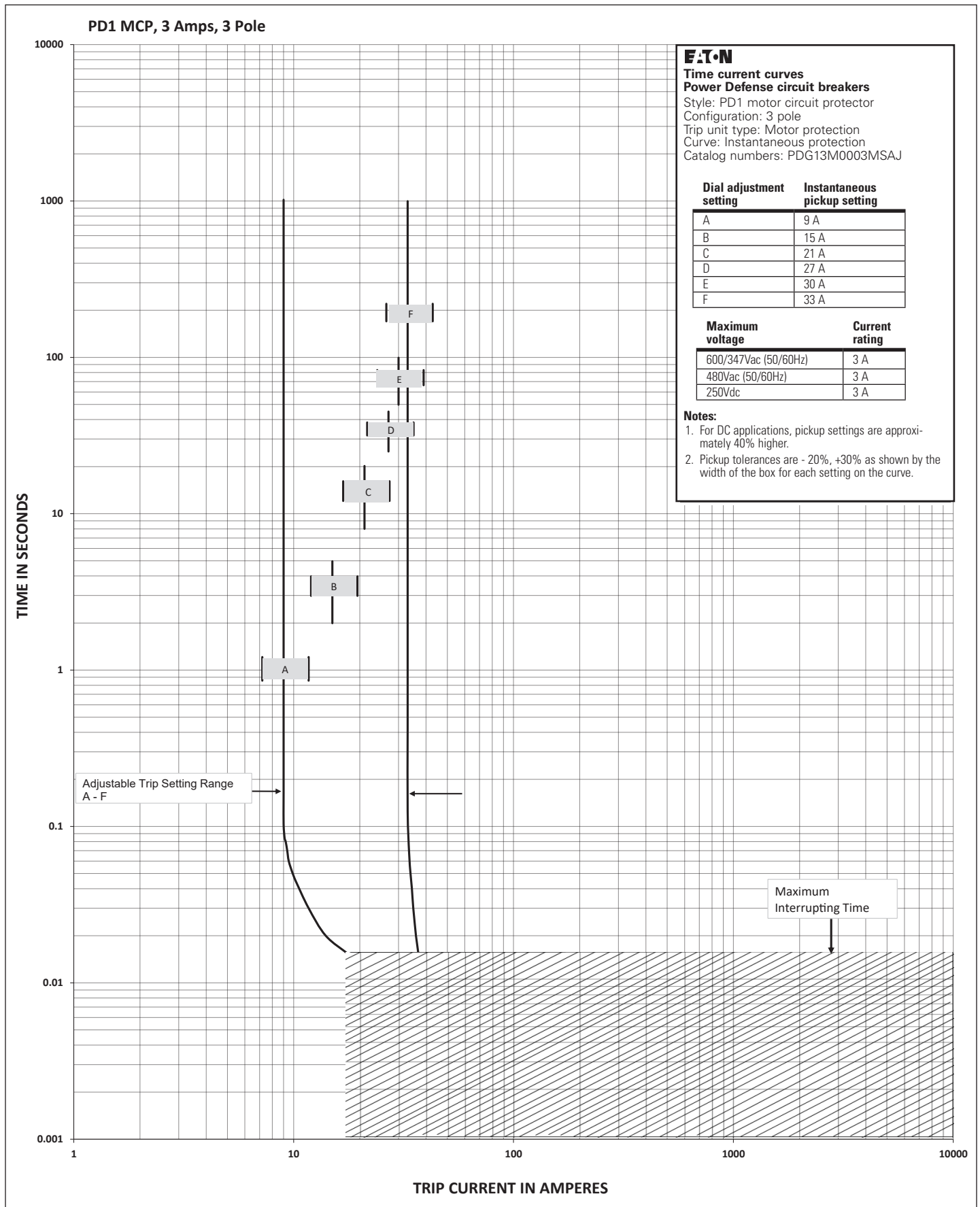


Figure 1. PD1 MCP 3 amp standard calibration motor circuit protector.

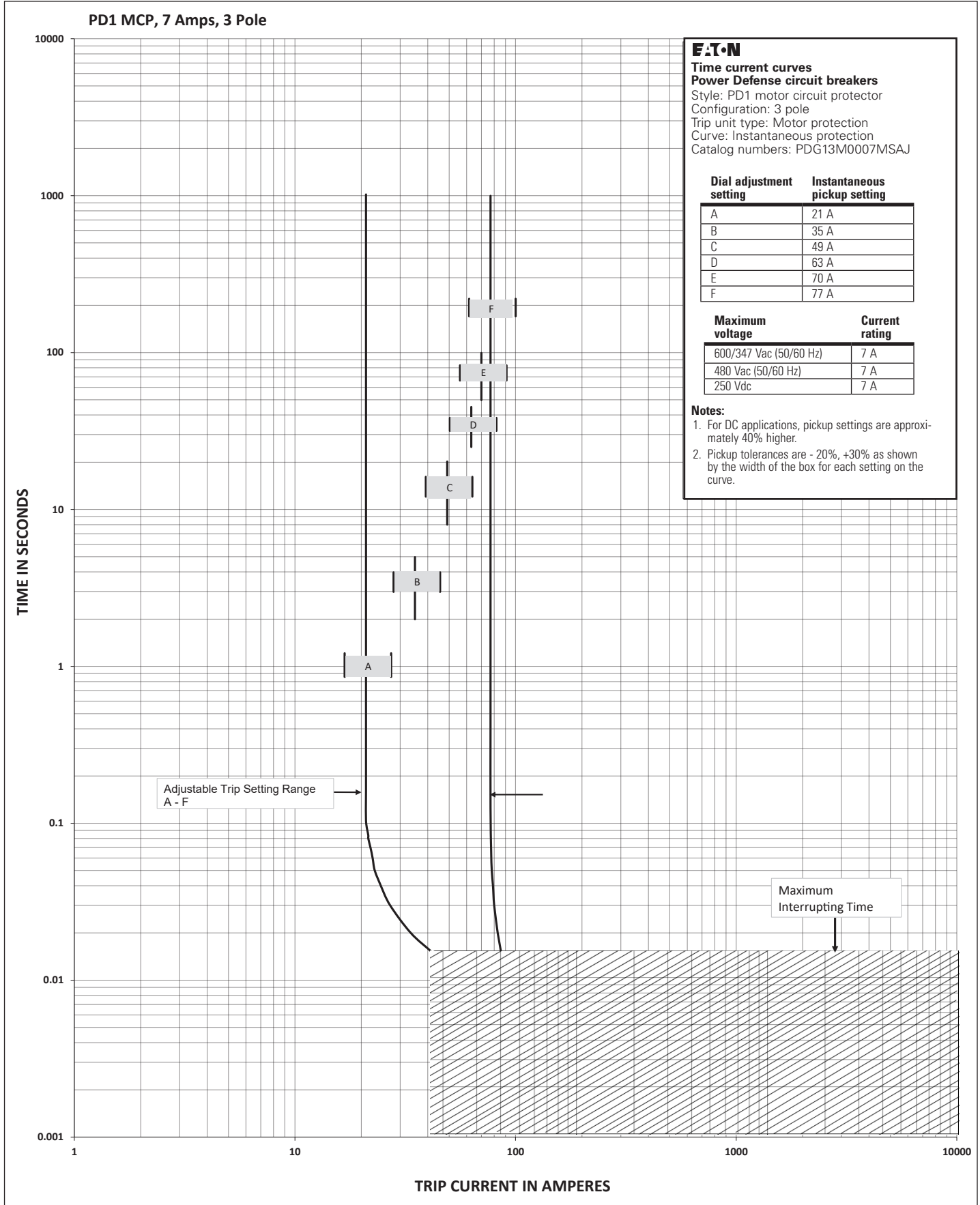


Figure 2. PD1 MCP 7 amp standard calibration motor circuit protector.

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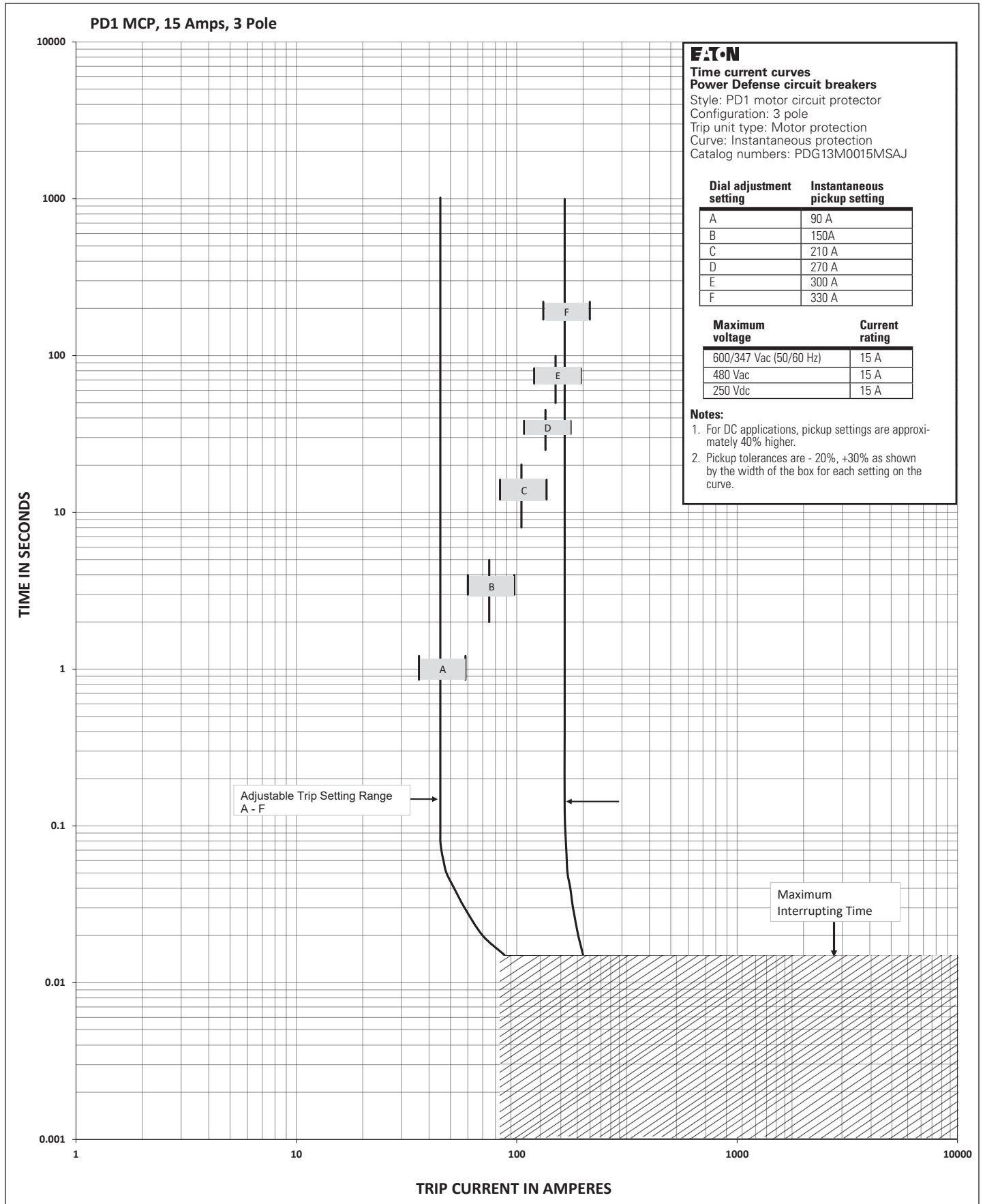


Figure 3. PD1 MCP 15 amp standard calibration motor circuit protector.

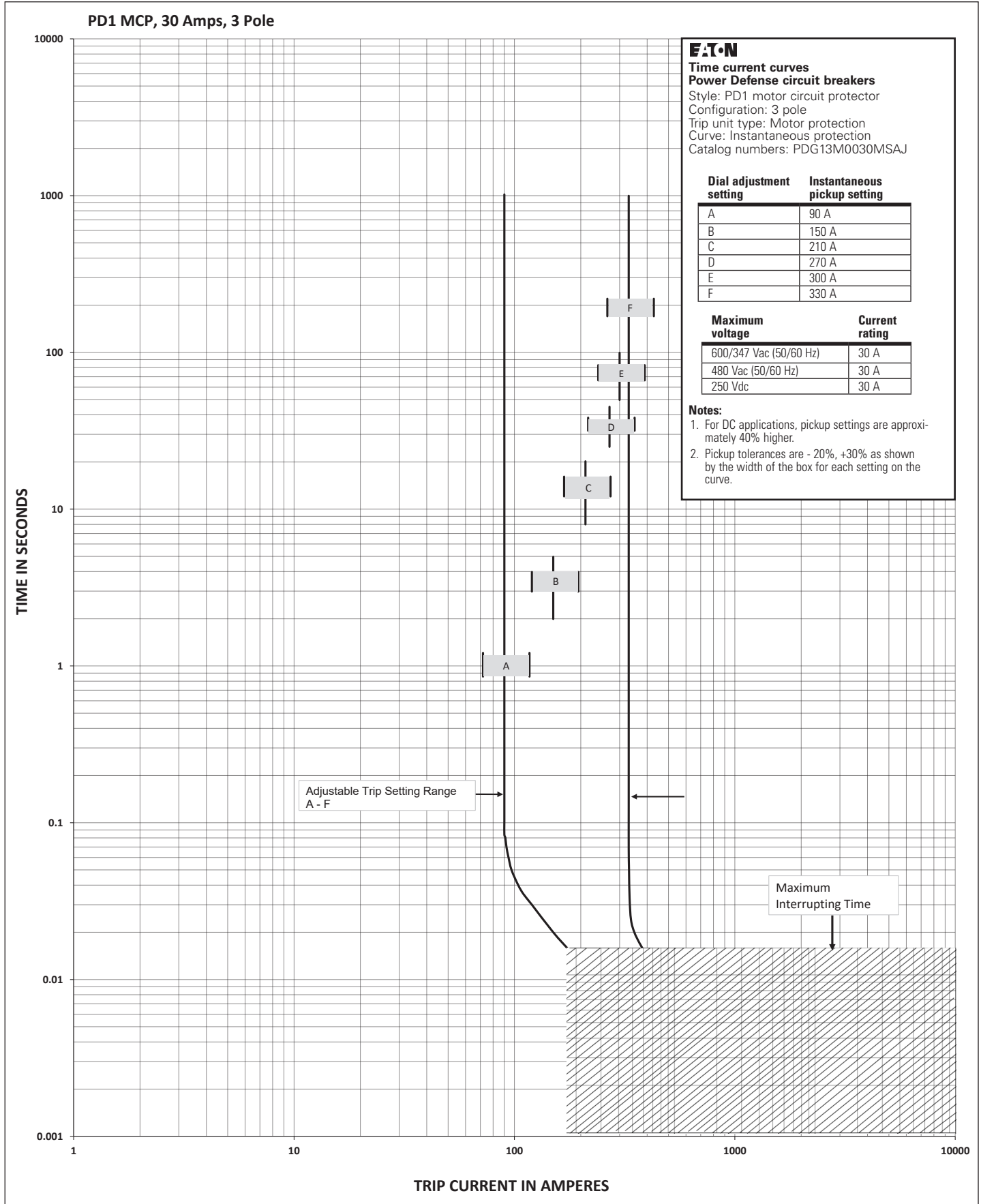


Figure 4. PD1 MCP 30 amp standard calibration motor circuit protector.

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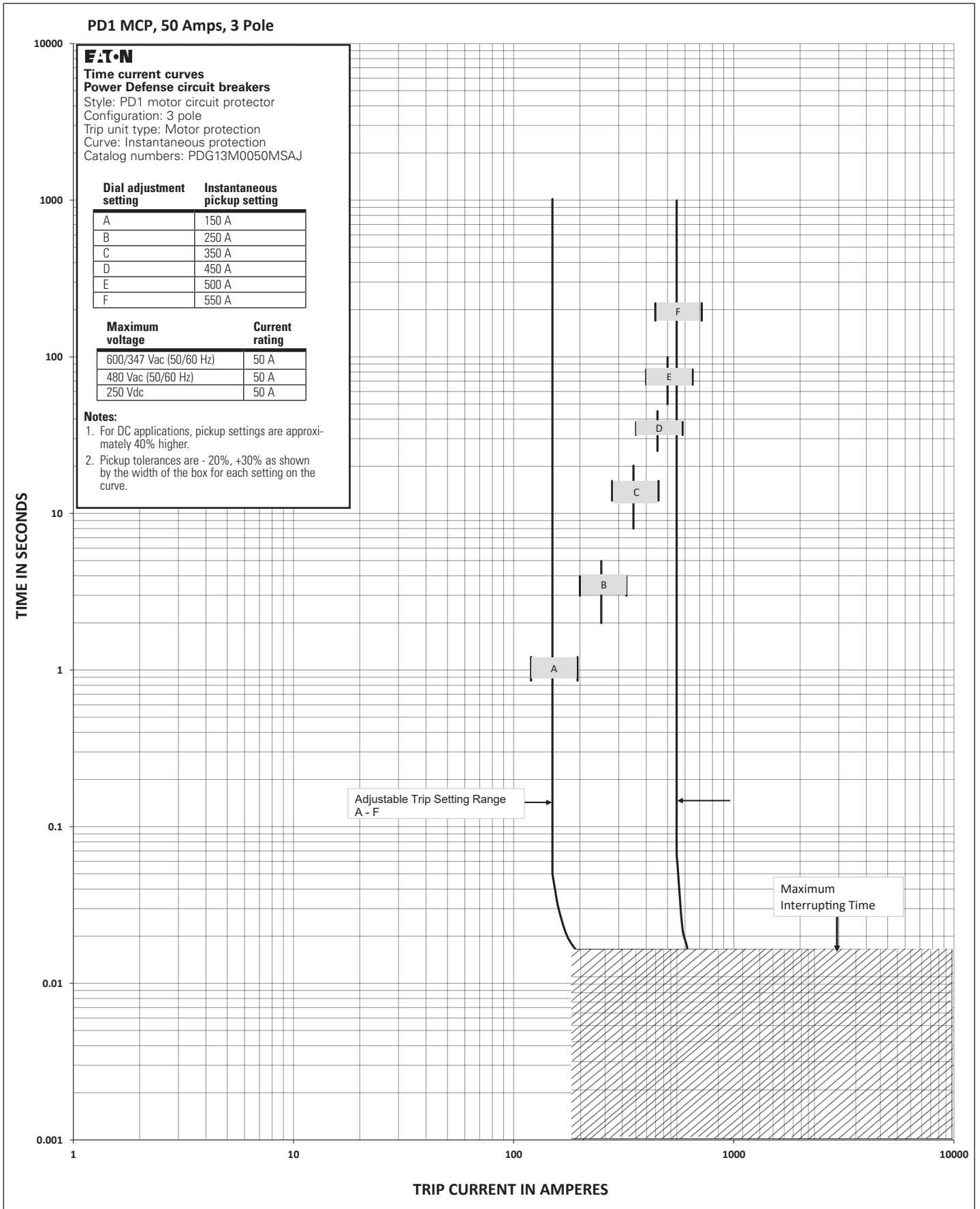


Figure 5. PD1 MCP 50 amp standard calibration motor circuit protector.

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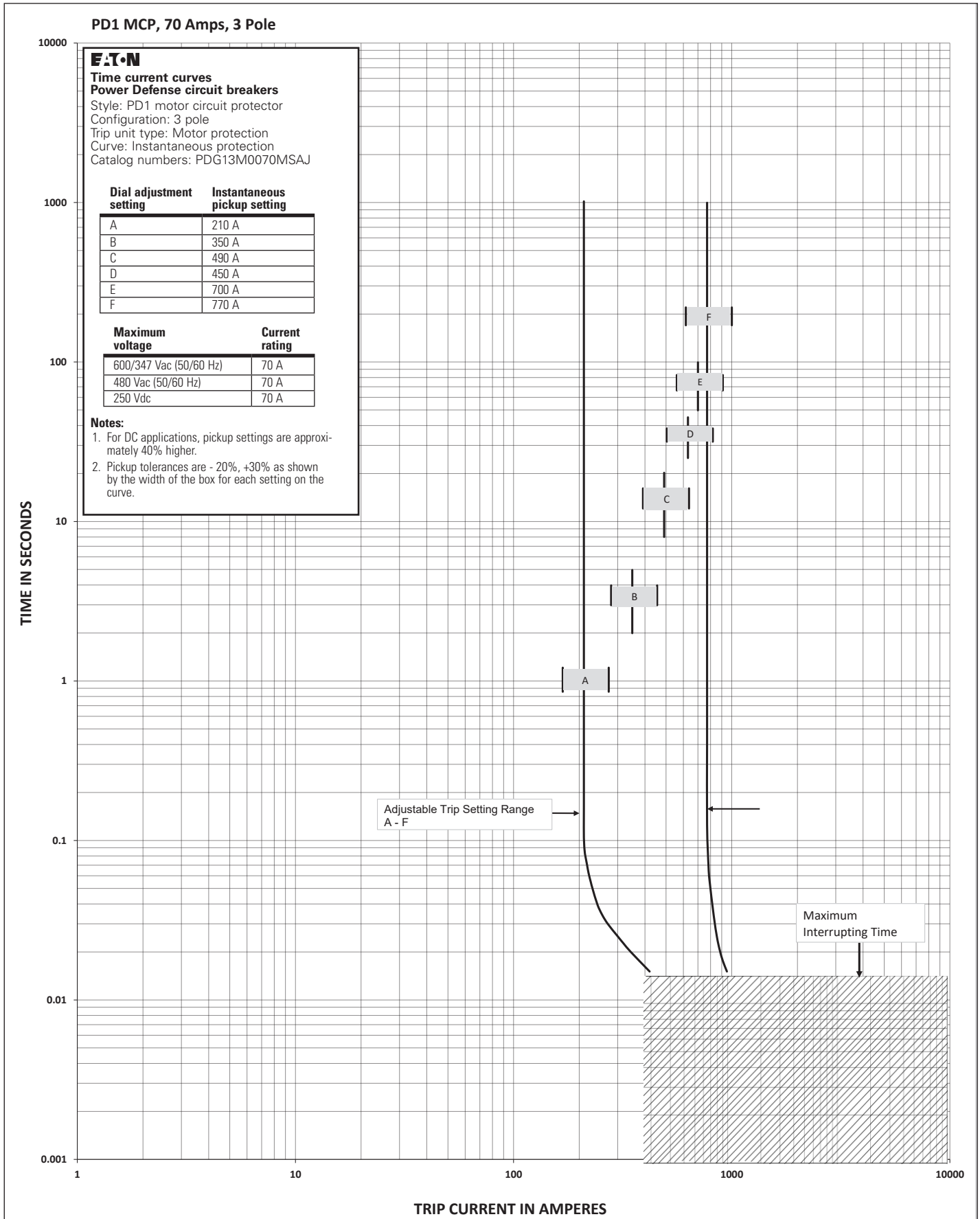


Figure 6. PD1 MCP 70 amp standard calibration motor circuit protector.

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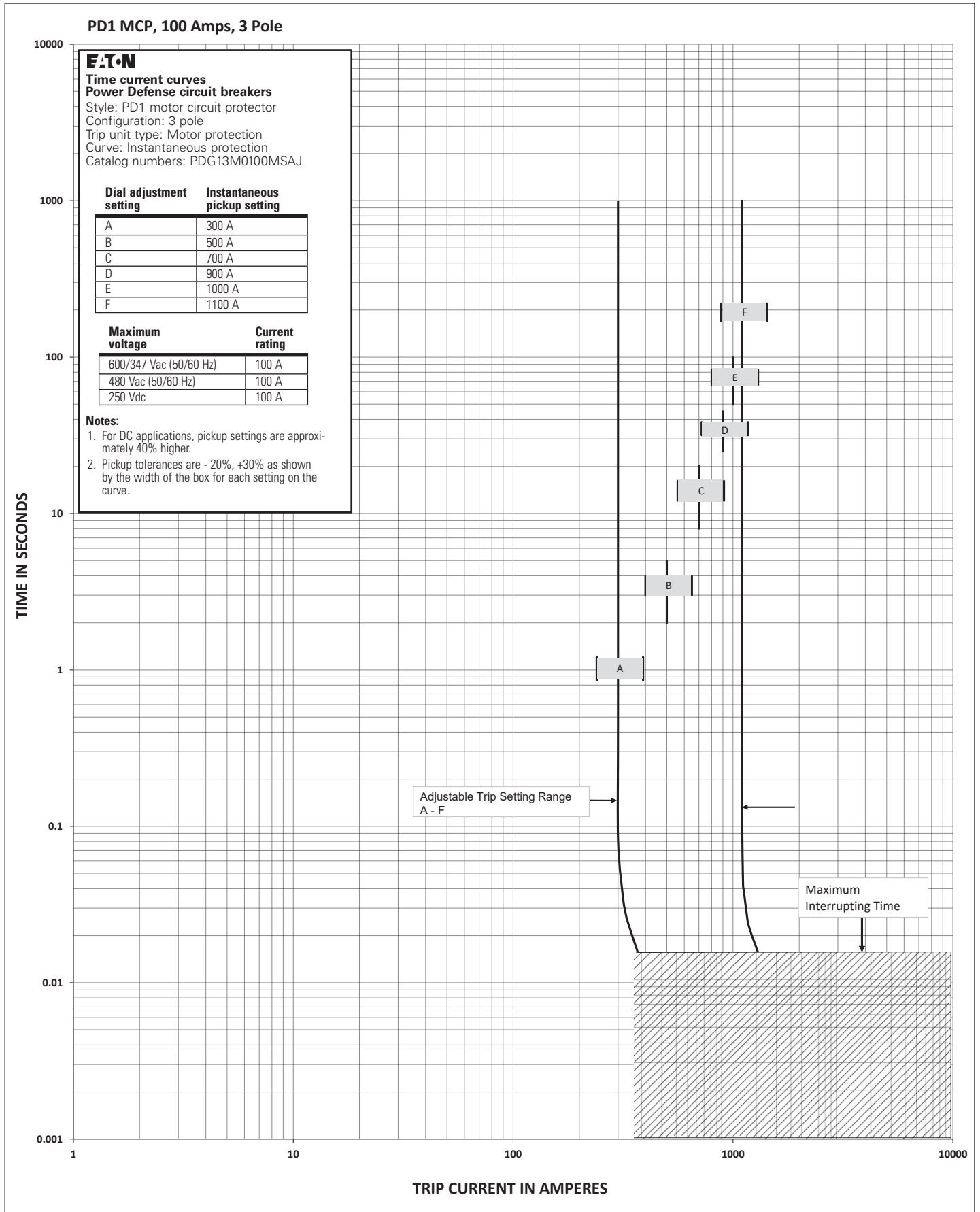


Figure 7. PD1 MCP 100 amp standard calibration motor circuit protector.

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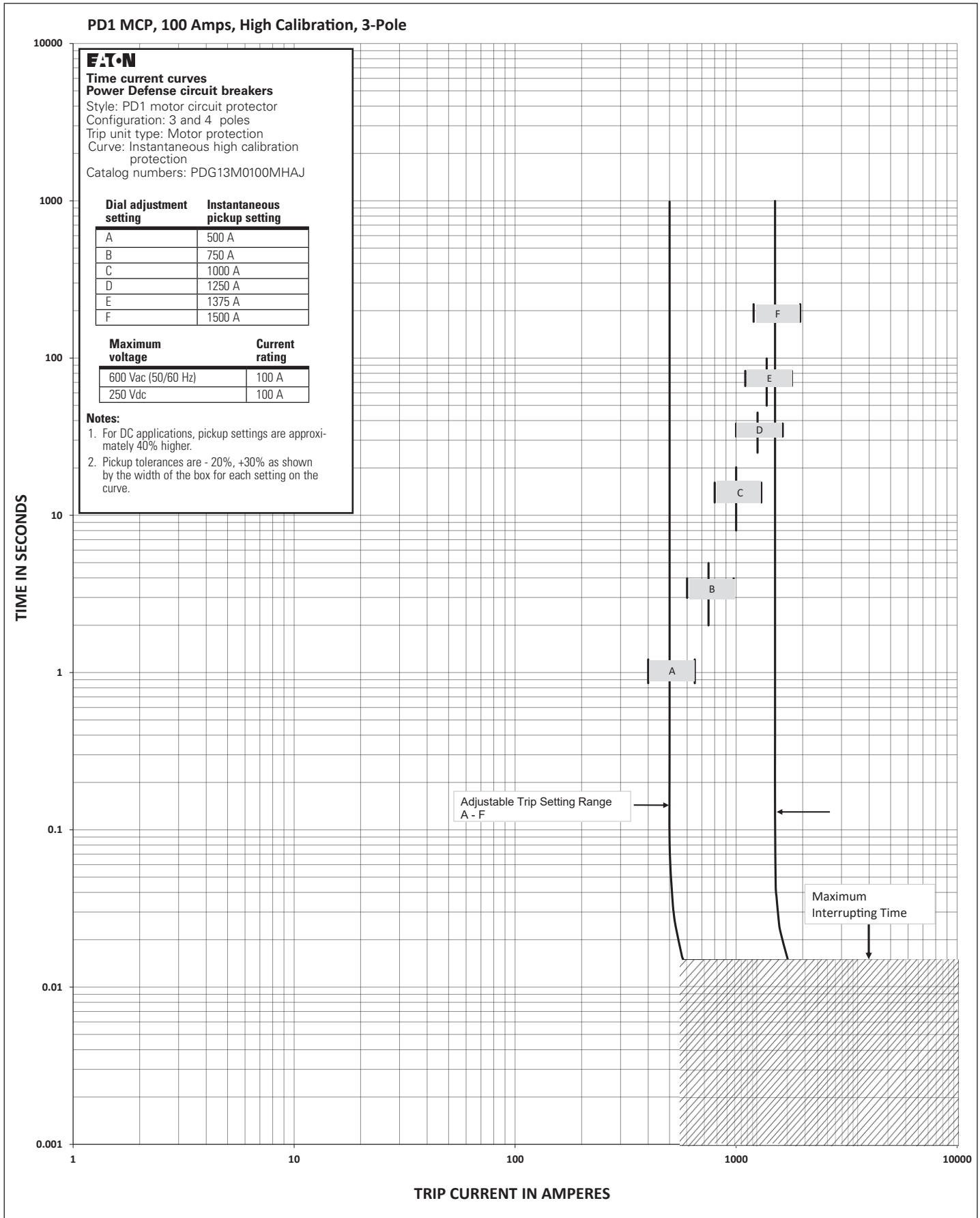


Figure 8. PD1 MCP 100 amp high calibration motor circuit protector.

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PD2 motor circuit protector curves

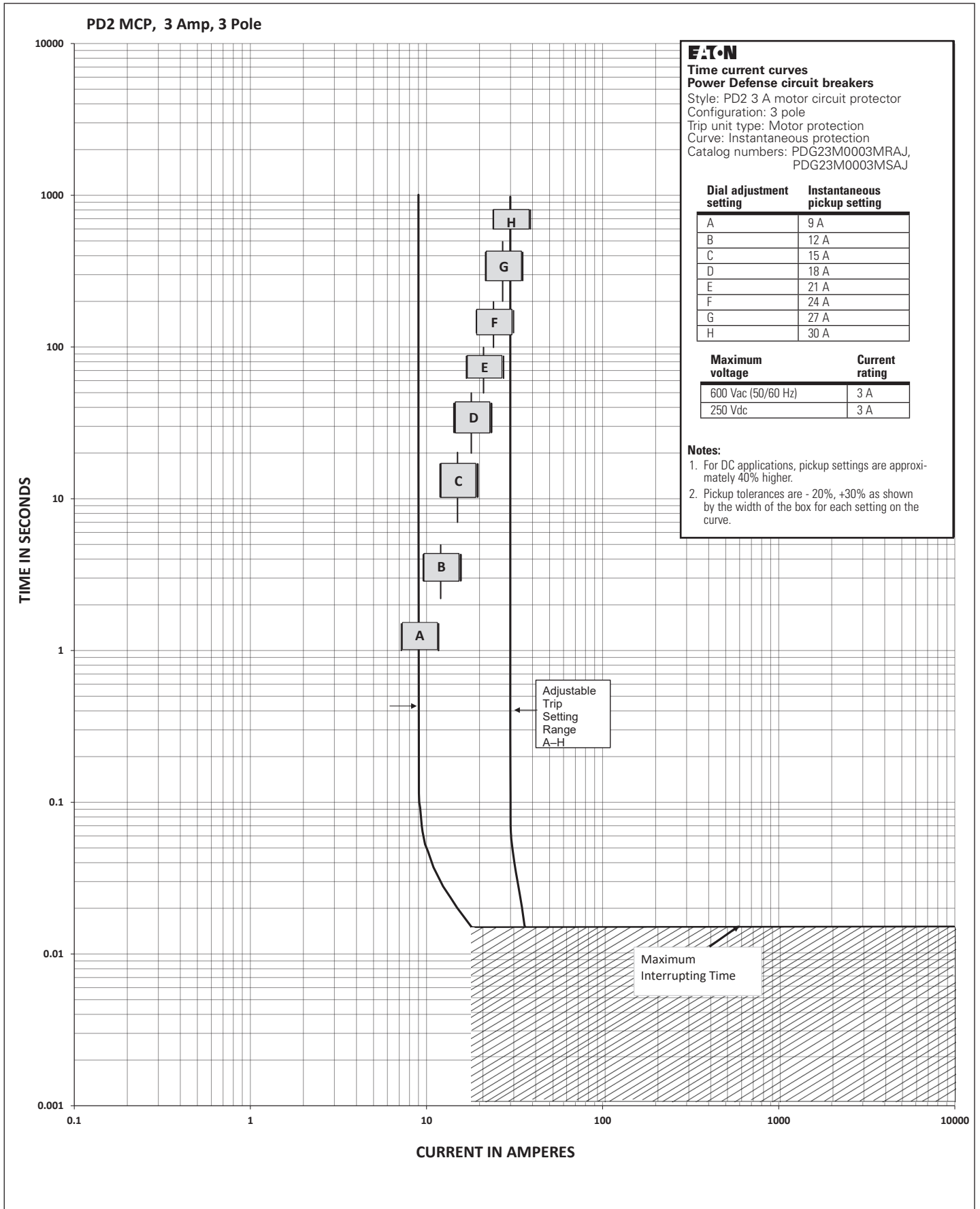


Figure 9. PD2 MCP 3 amp standard calibration motor circuit protector.

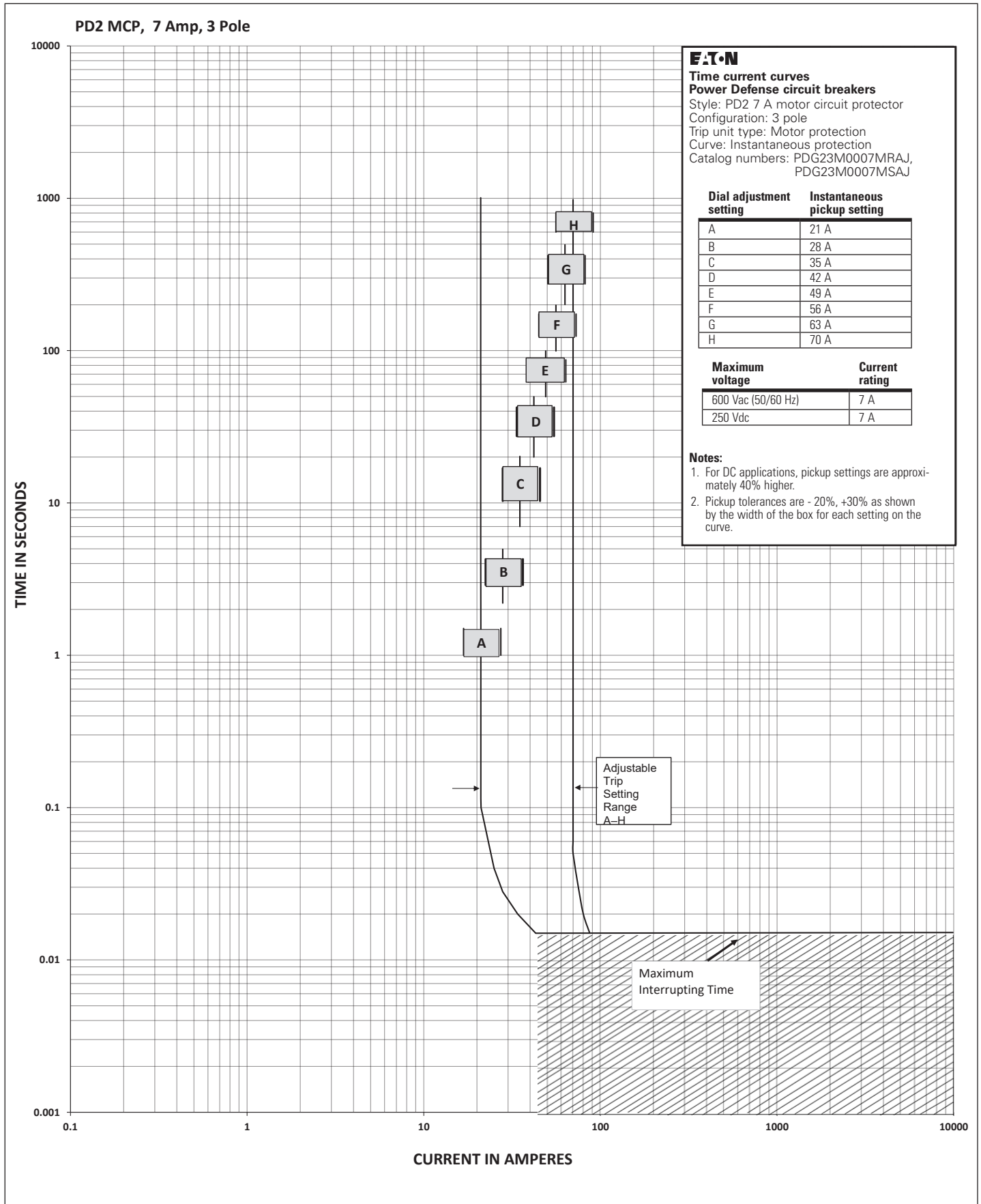


Figure 10. PD2 MCP 7 amp standard calibration motor circuit protector.

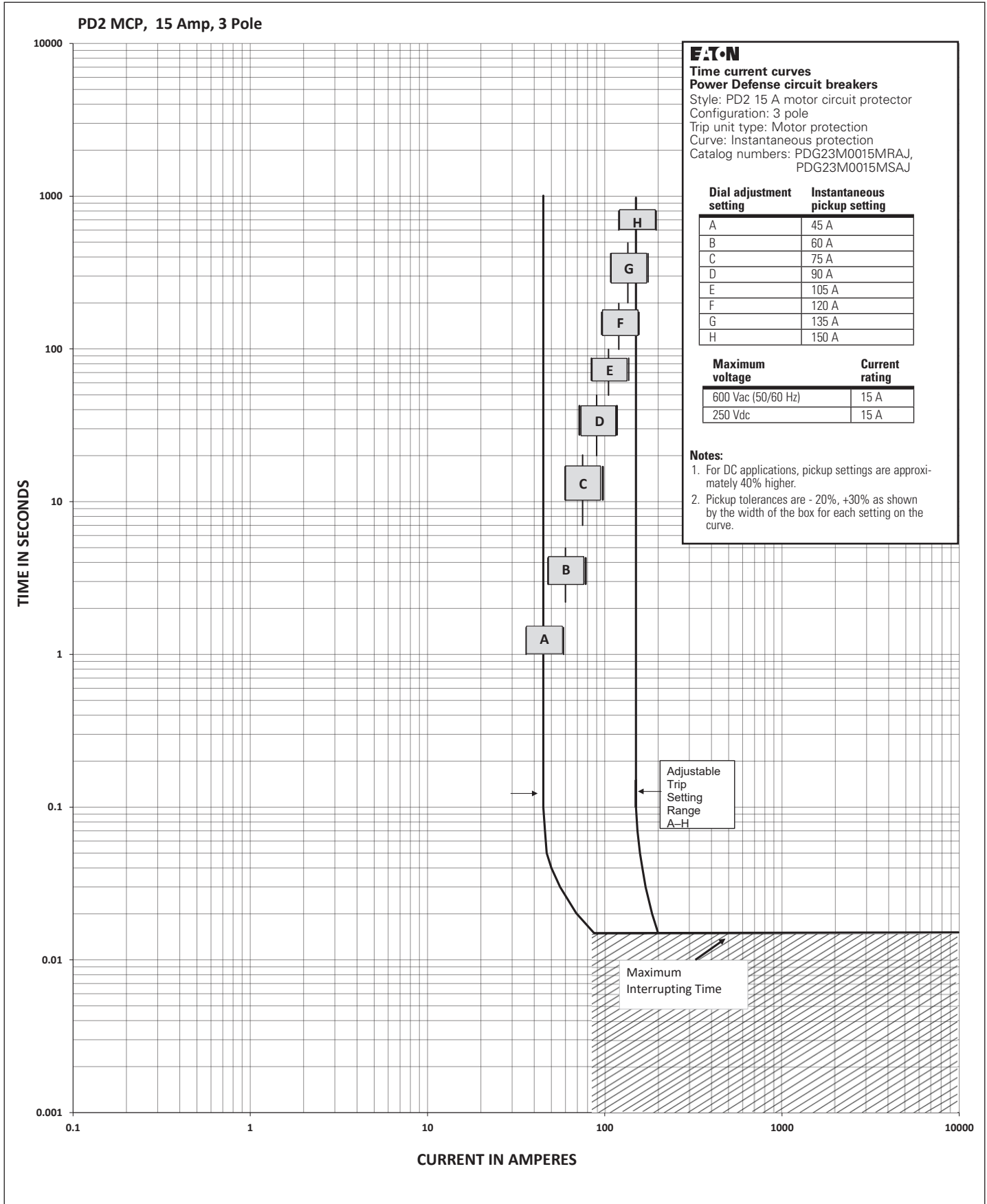


Figure 11. PD2 MCP 15 amp standard calibration motor circuit protector.

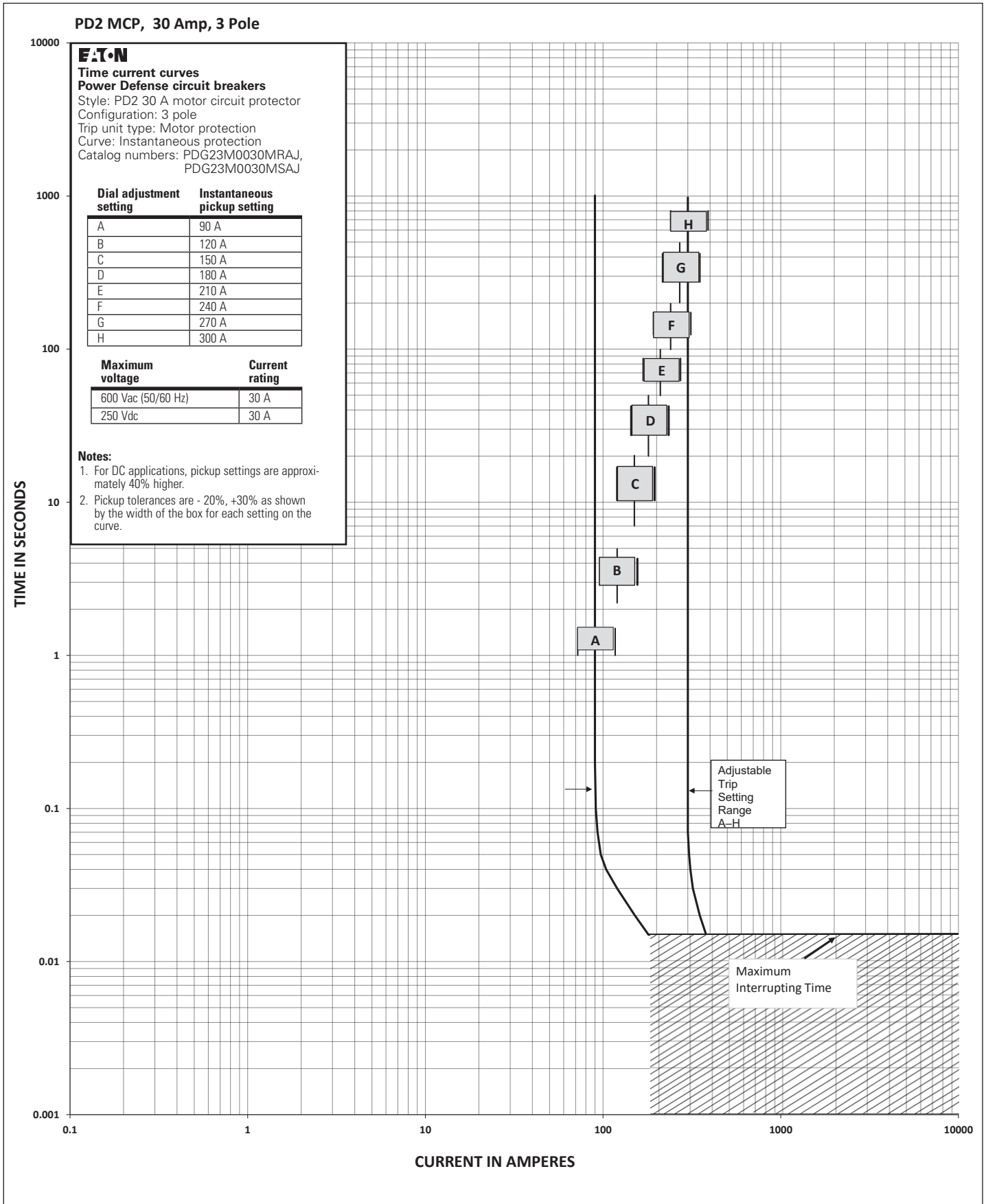


Figure 12. PD2 MCP 30 amp standard calibration motor circuit protector.

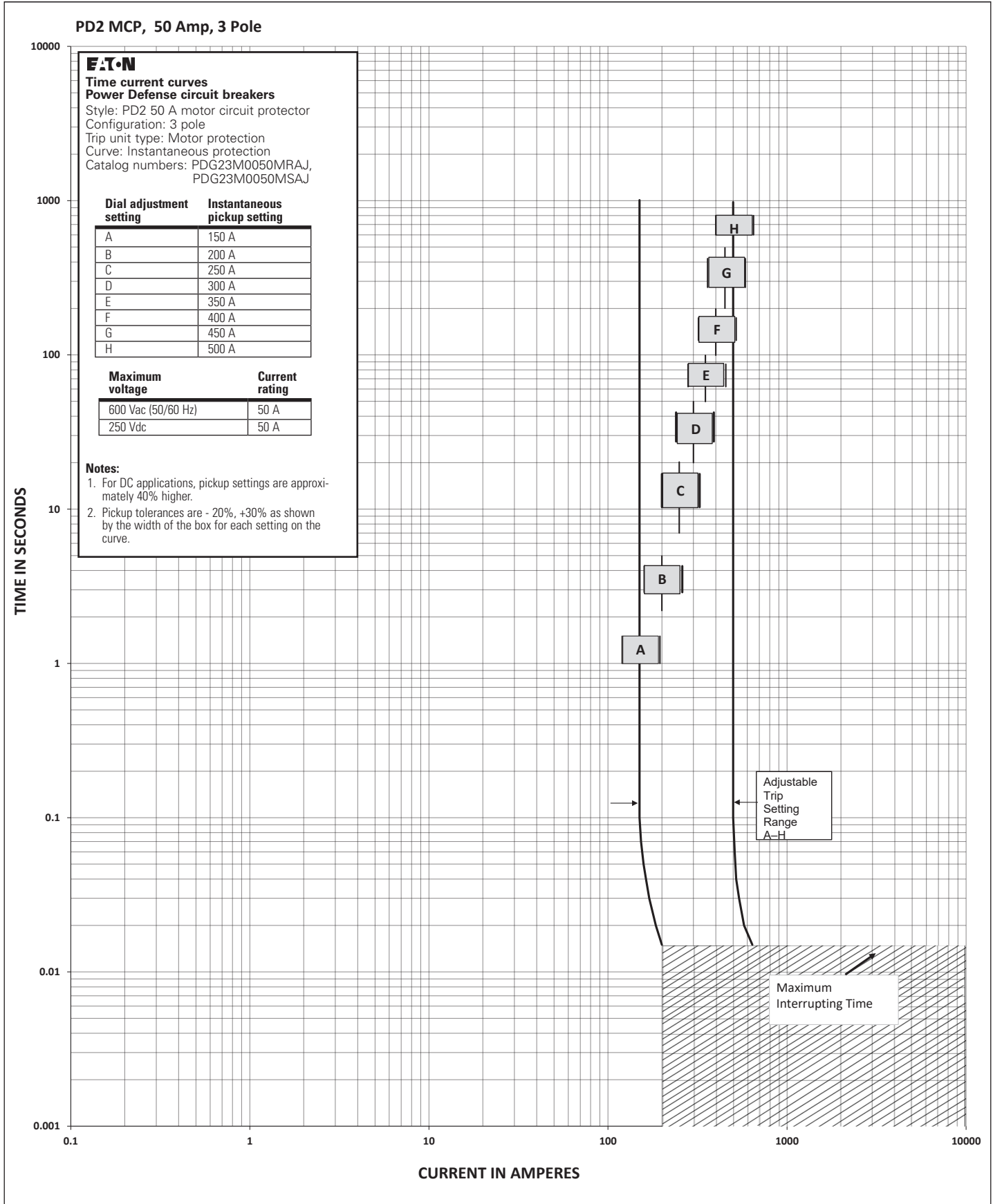


Figure 13. PD2 MCP 50 amp standard calibration motor circuit protector.

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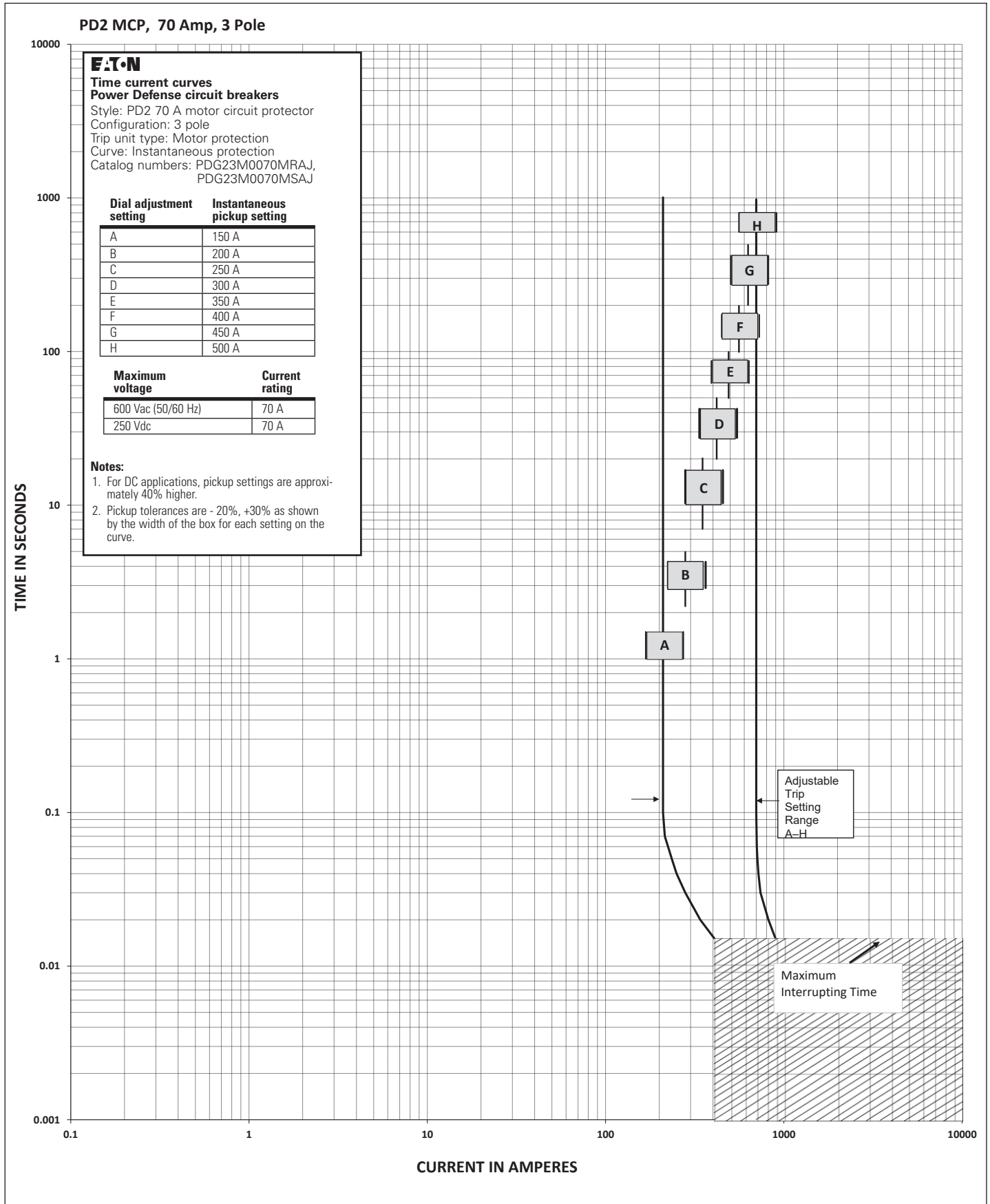


Figure 14. PD2 MCP 70 amp standard calibration motor circuit protector.

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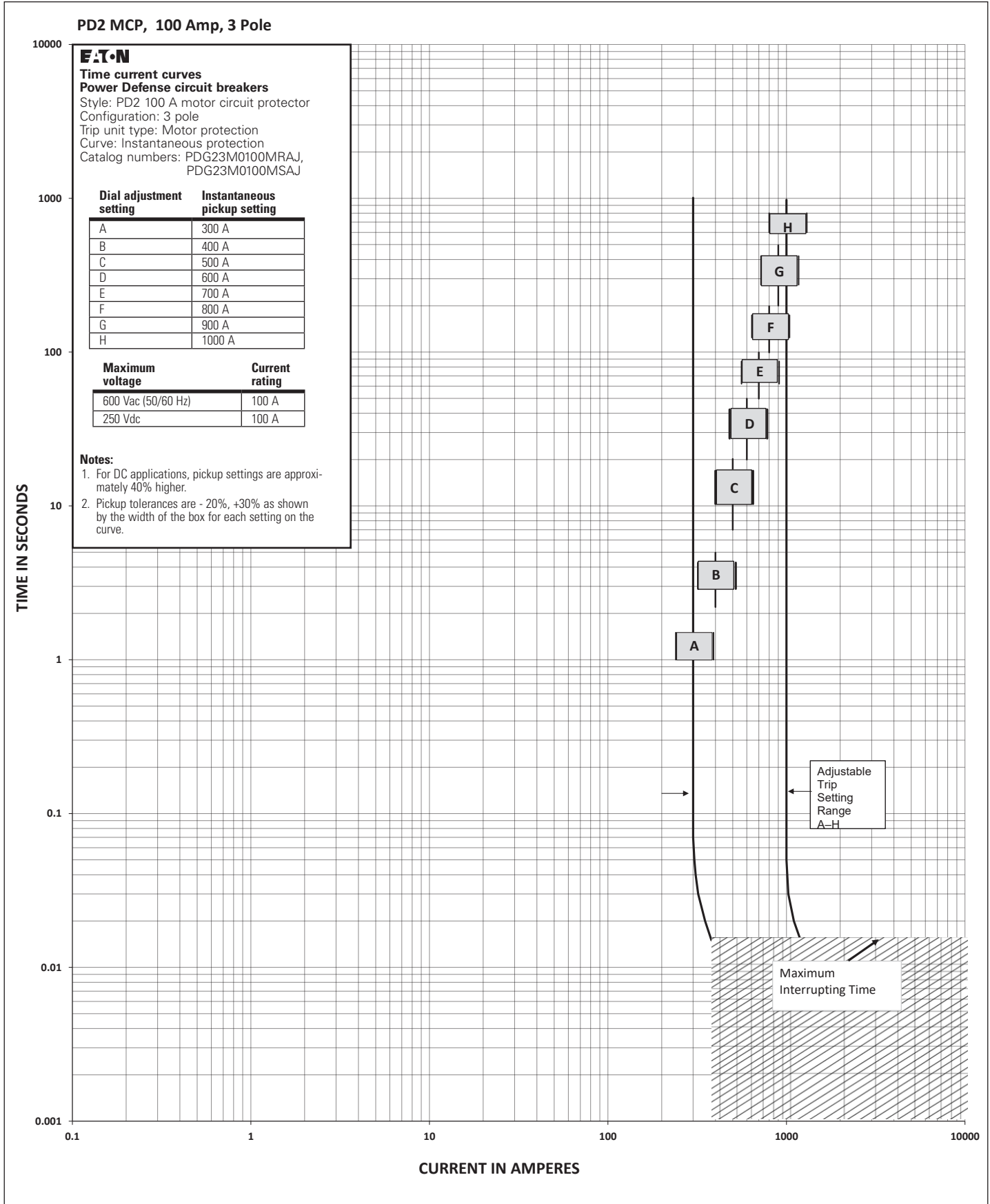


Figure 15. PD2 MCP 100 amp standard calibration motor circuit protector.

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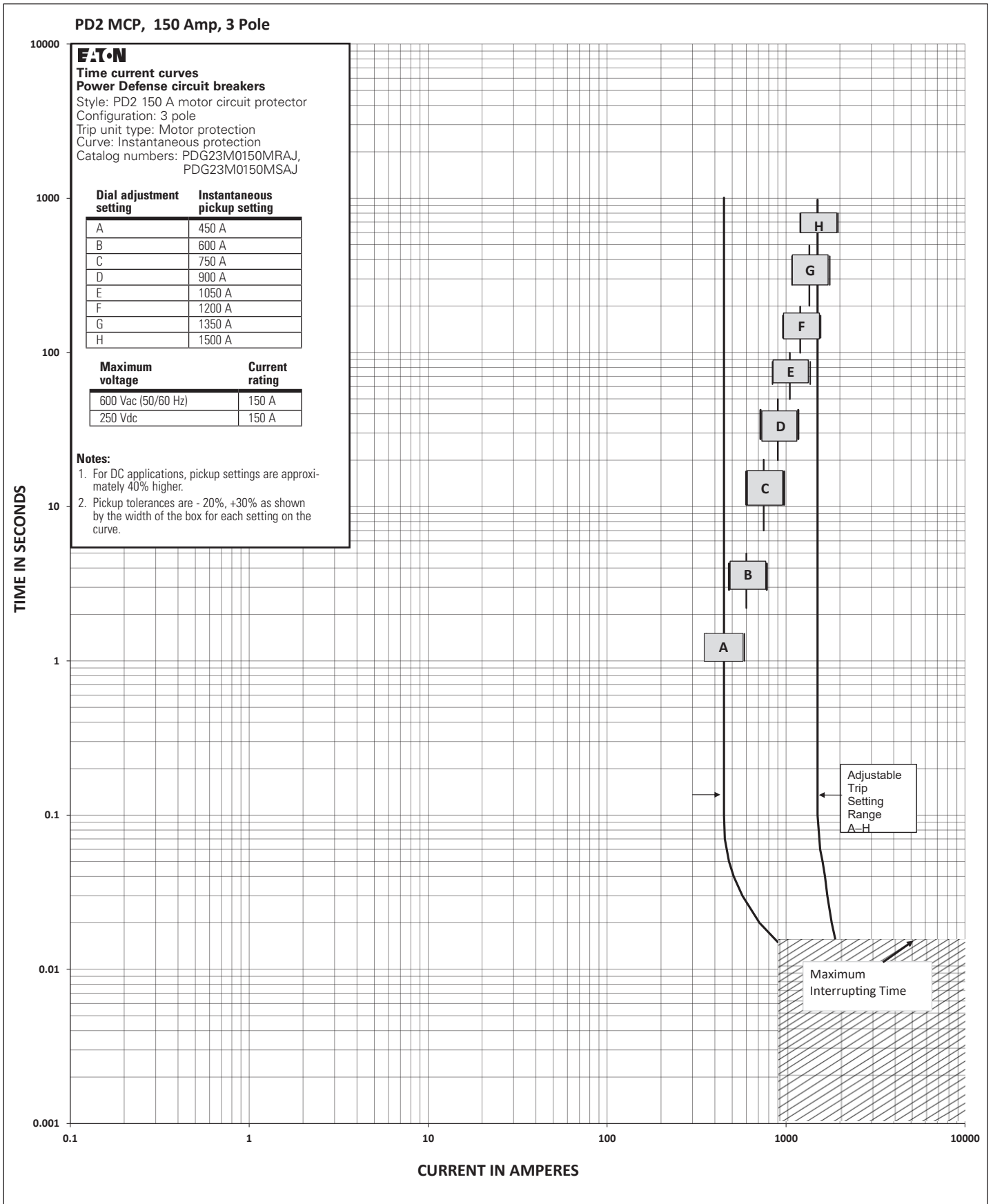


Figure 16. PD2 MCP 150 amp standard calibration motor circuit protector.

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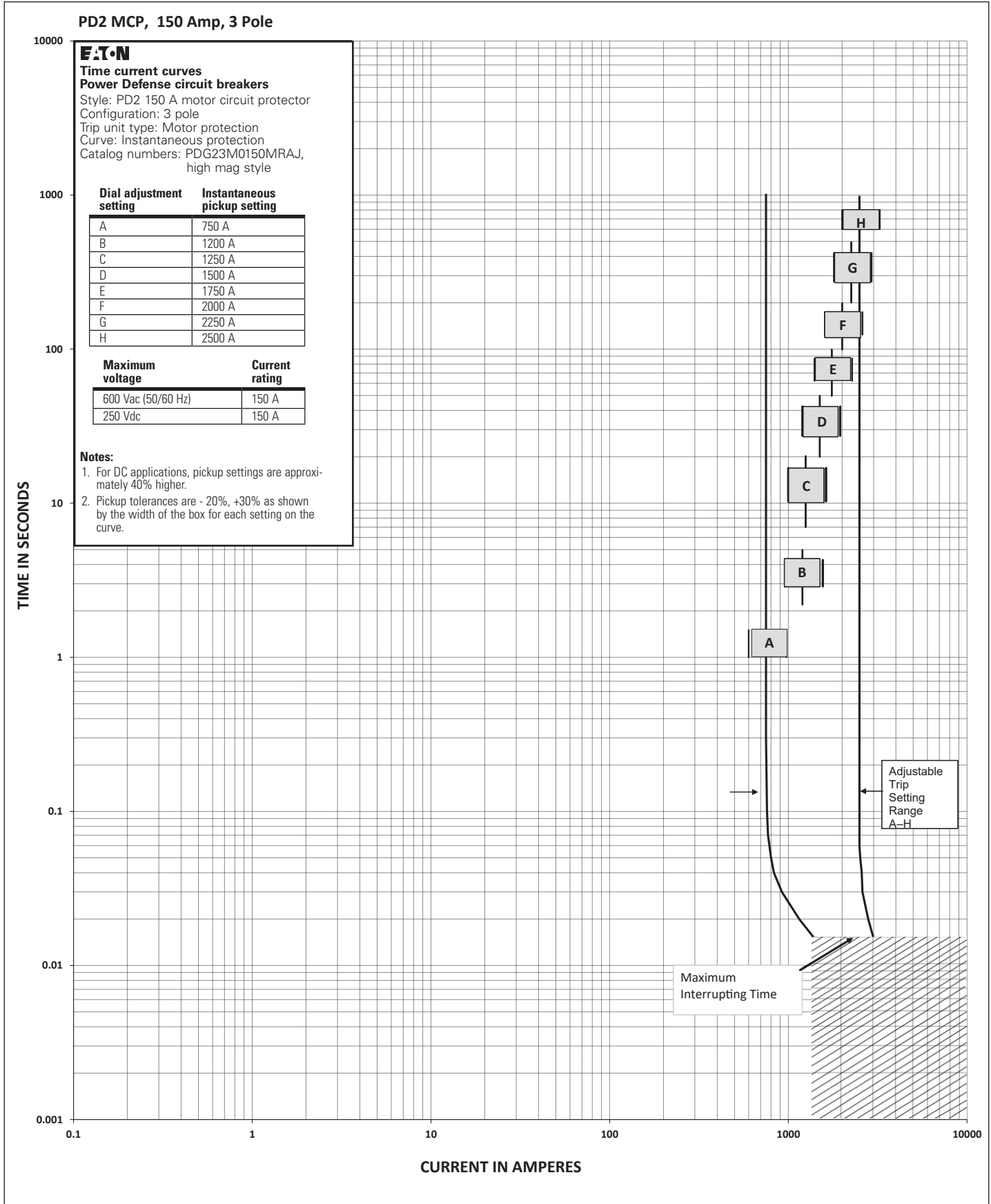


Figure 17. PD2 MCP 150 amp high calibration motor circuit protector

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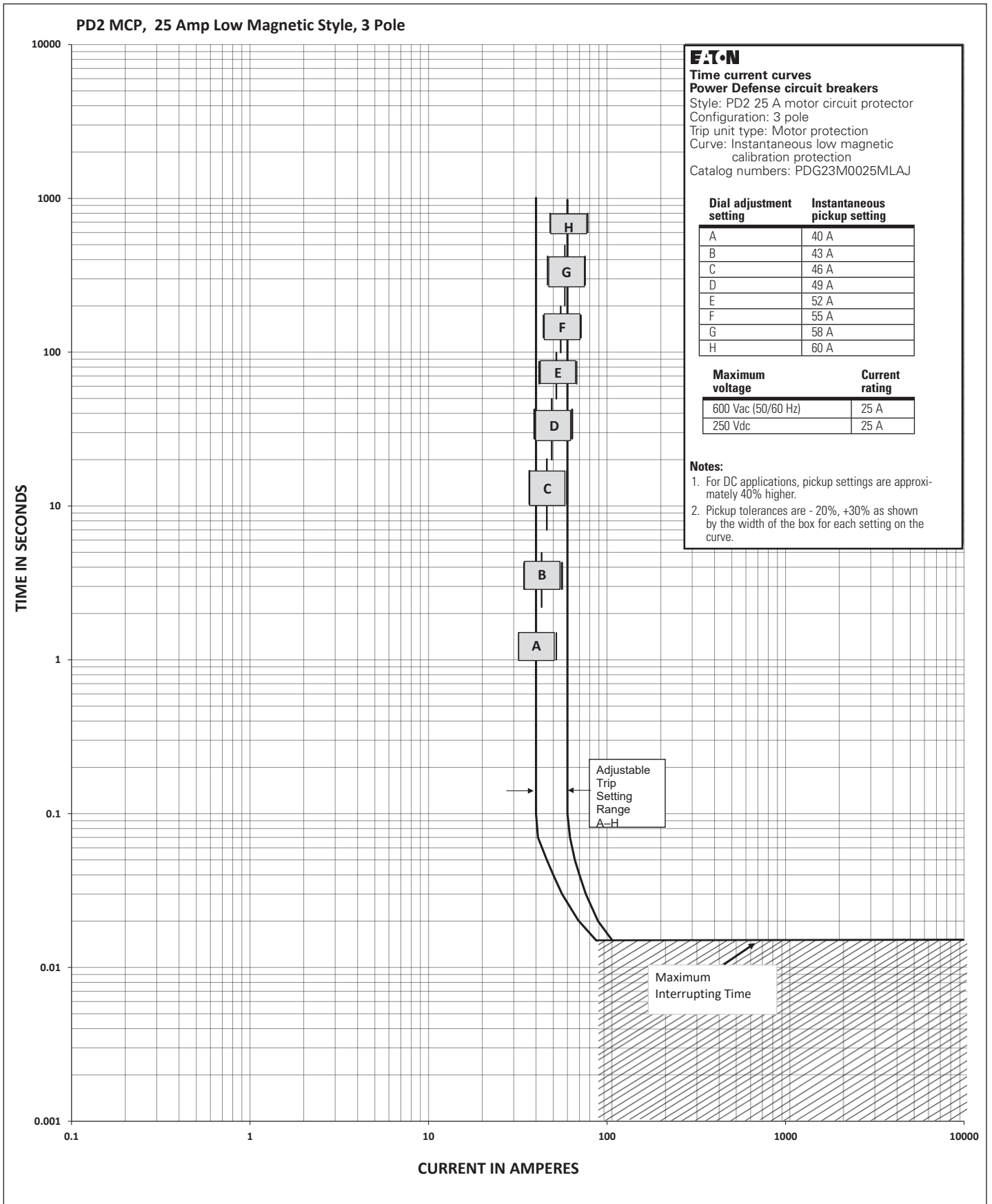


Figure 18. PD2 MCP 25 amp low calibration motor circuit protector.

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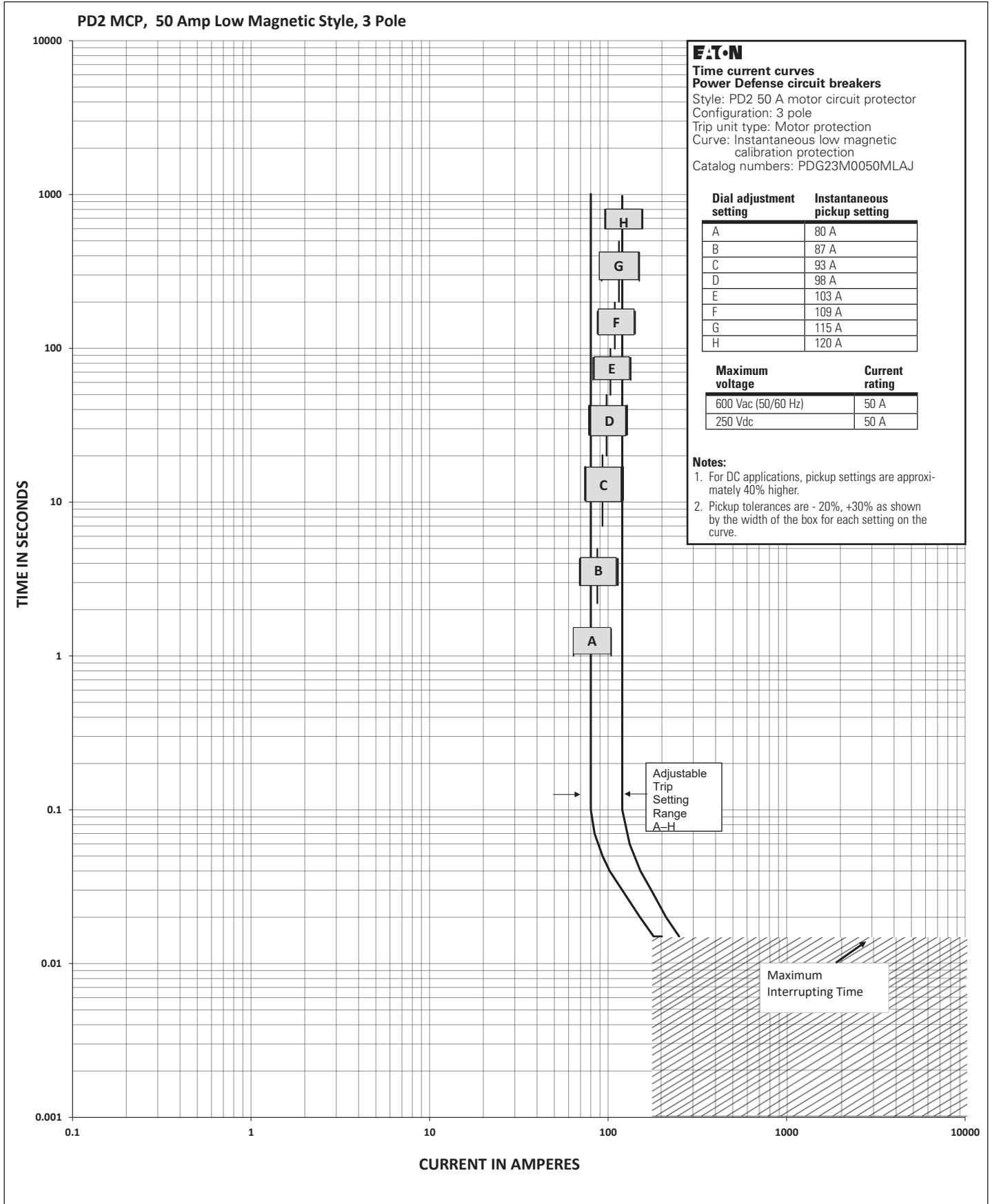


Figure 19. PD2 MCP 50 amp low calibration motor circuit protector.

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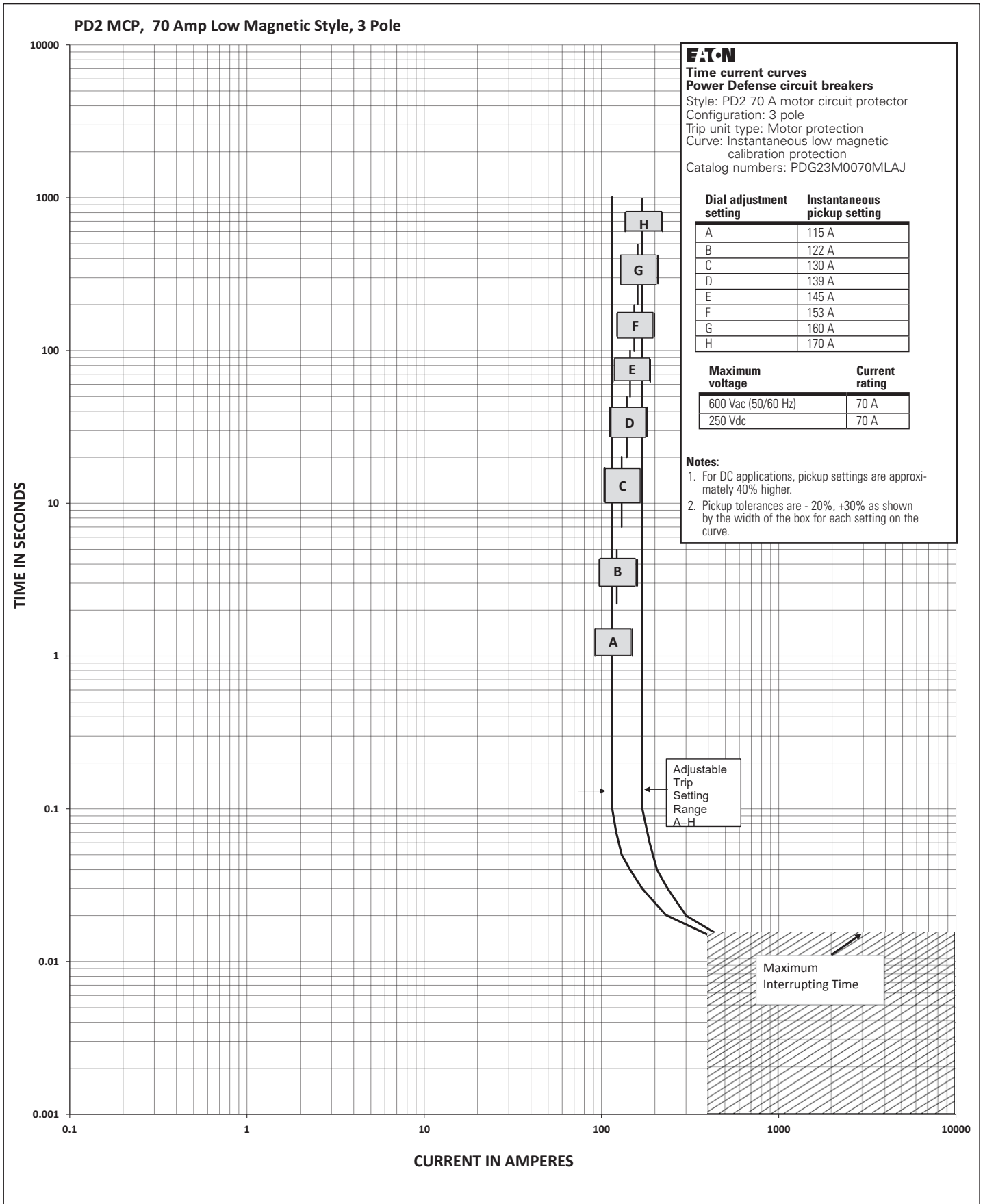


Figure 20. PD2 MCP 70 amp low calibration motor circuit protector.

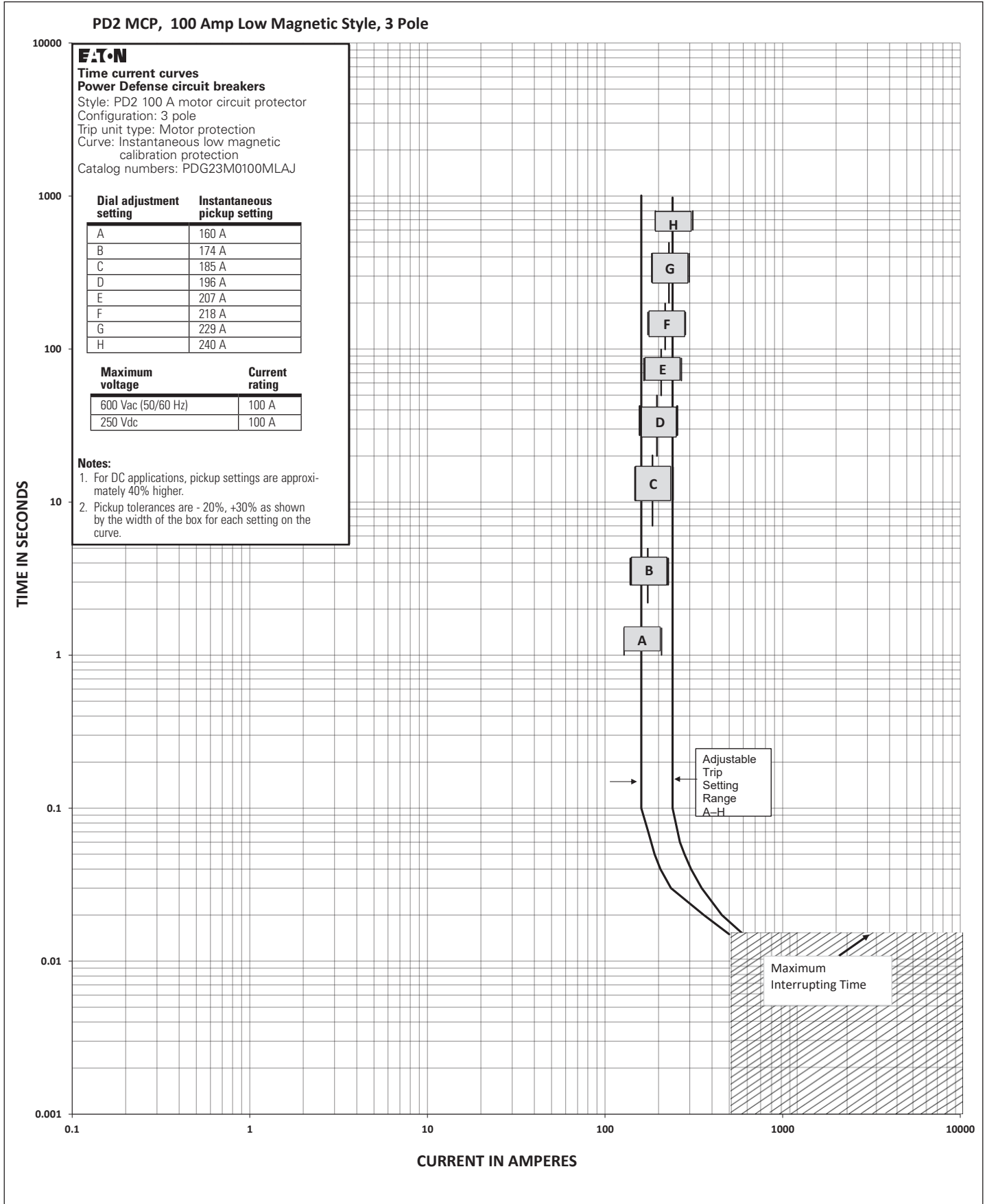


Figure 21. PD2 MCP 100 amp low calibration motor circuit protector.

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PD3 motor circuit protector curves

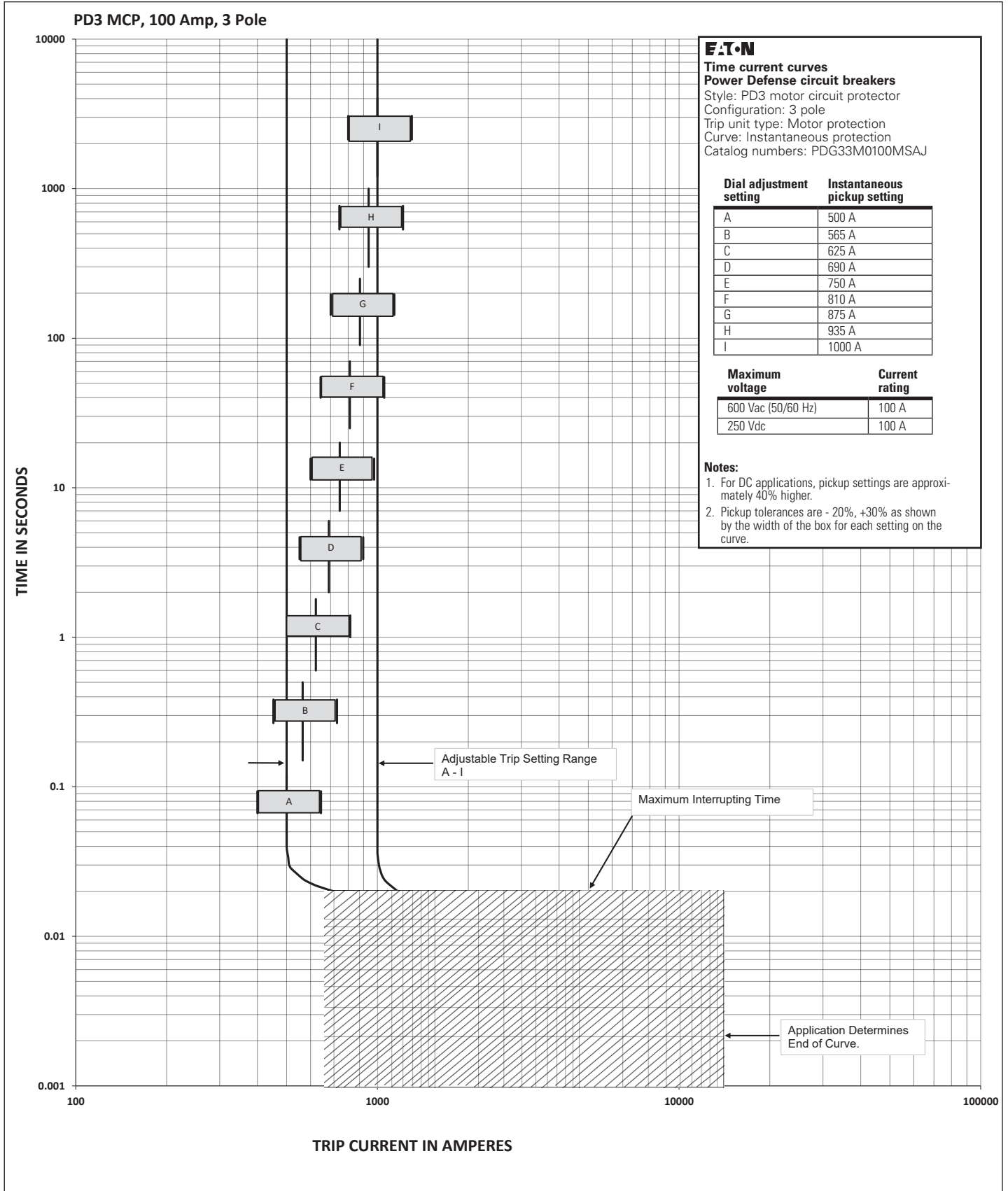


Figure 22. PD3 MCP 100 amp standard calibration motor circuit protector.

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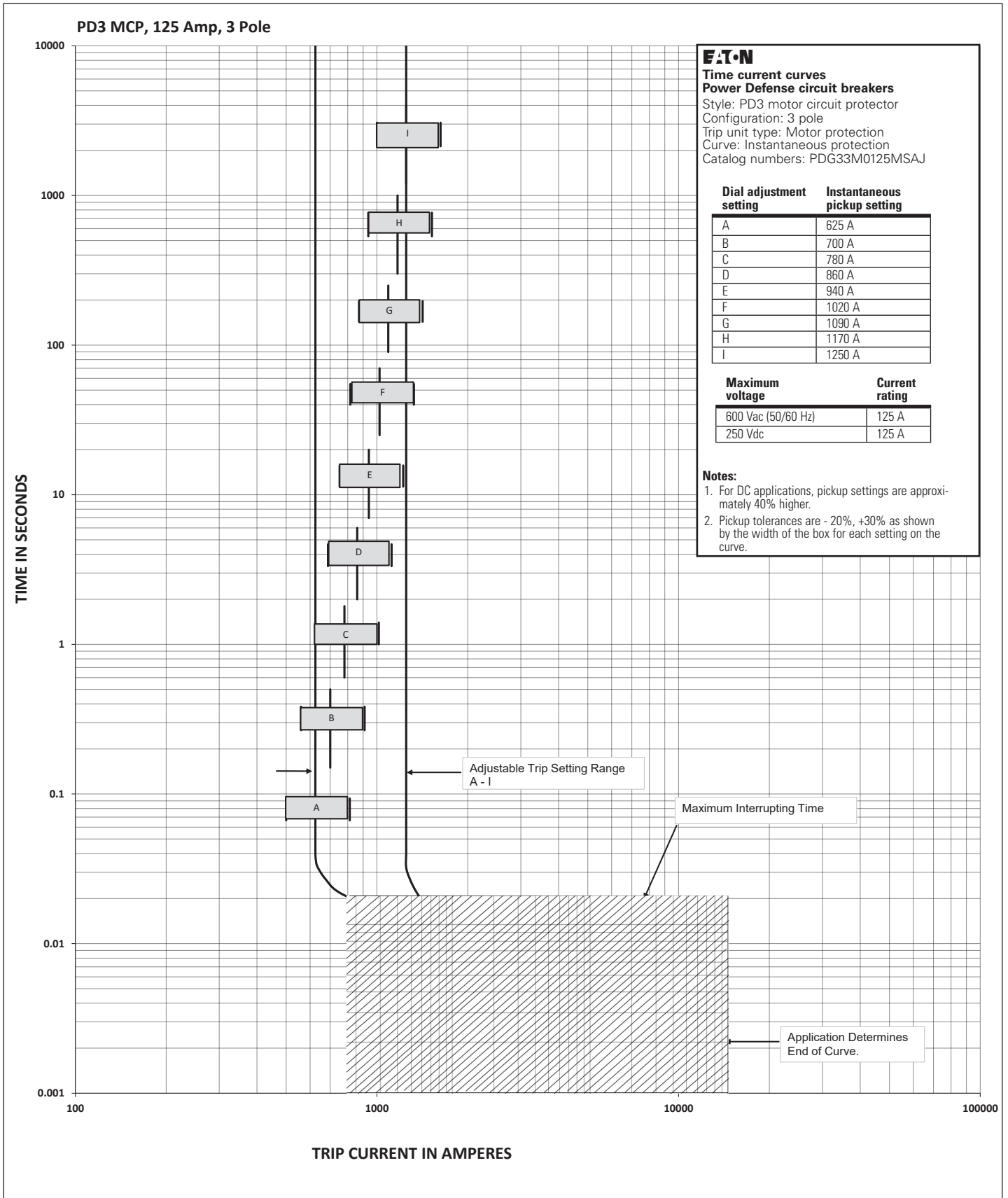


Figure 23. PD3 MCP 125 amp standard calibration motor circuit protector.

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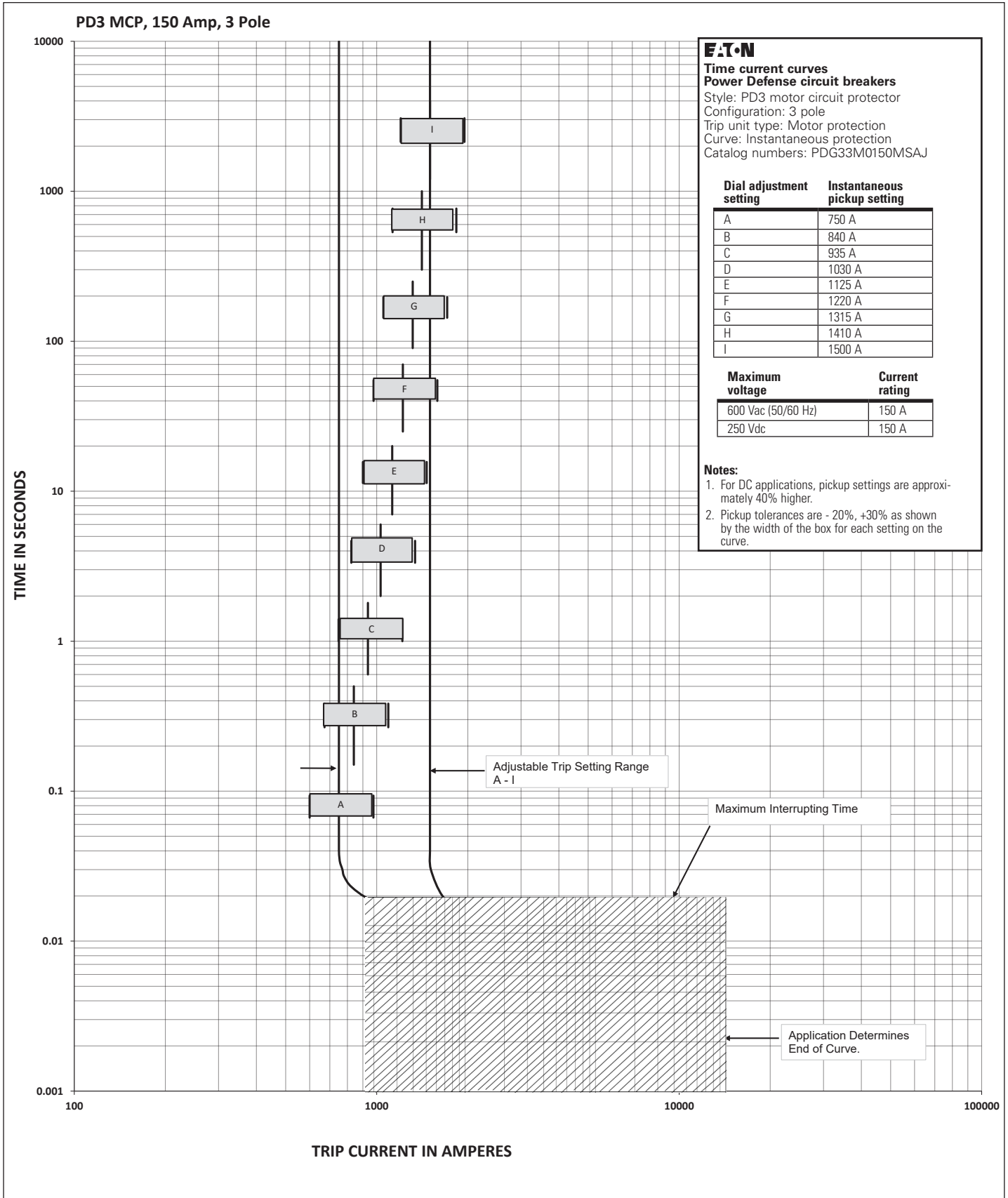


Figure 24. PD3 MCP 150 amp standard calibration motor circuit protector.

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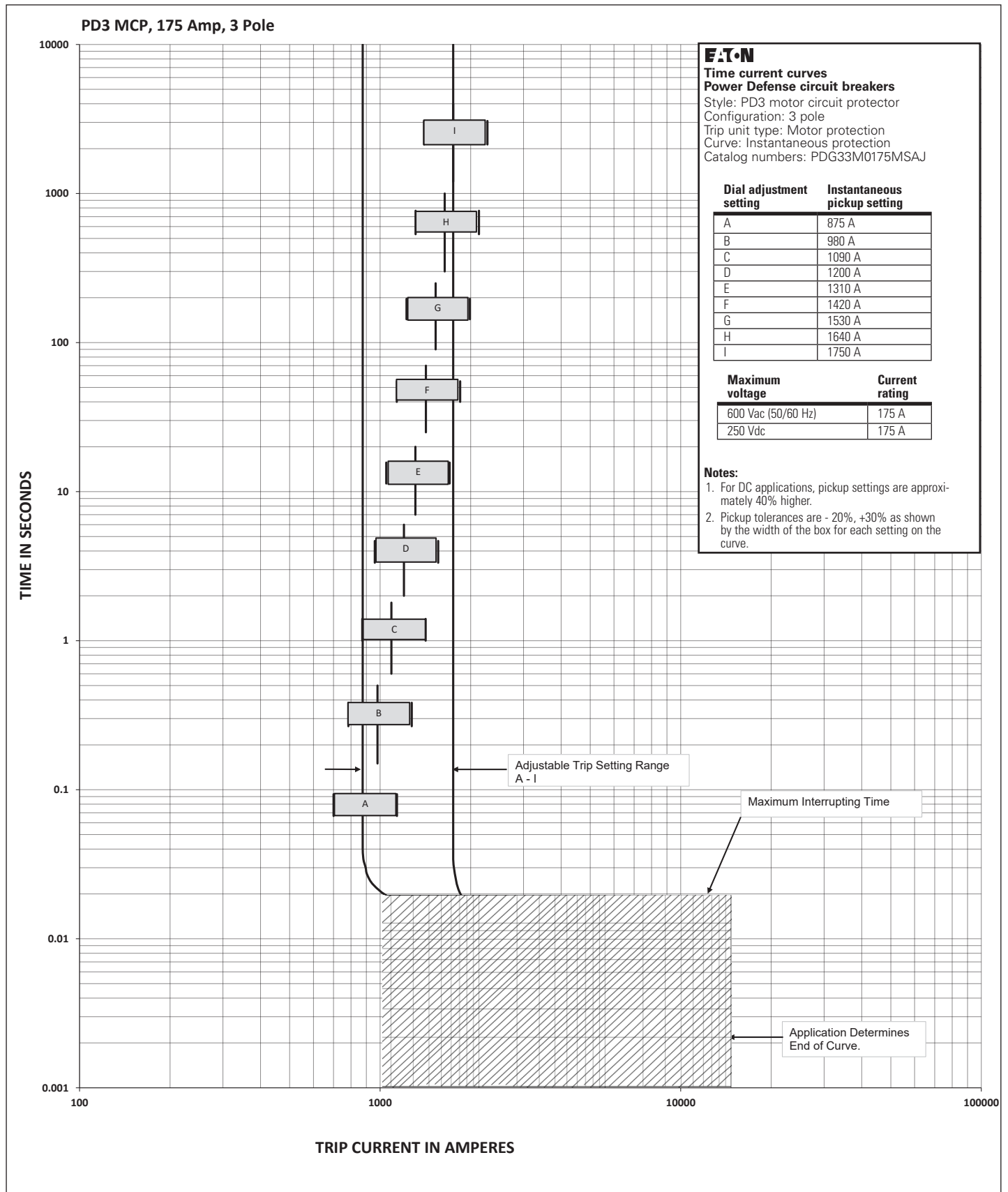


Figure 25. PD3 MCP 175 amp standard calibration motor circuit protector.

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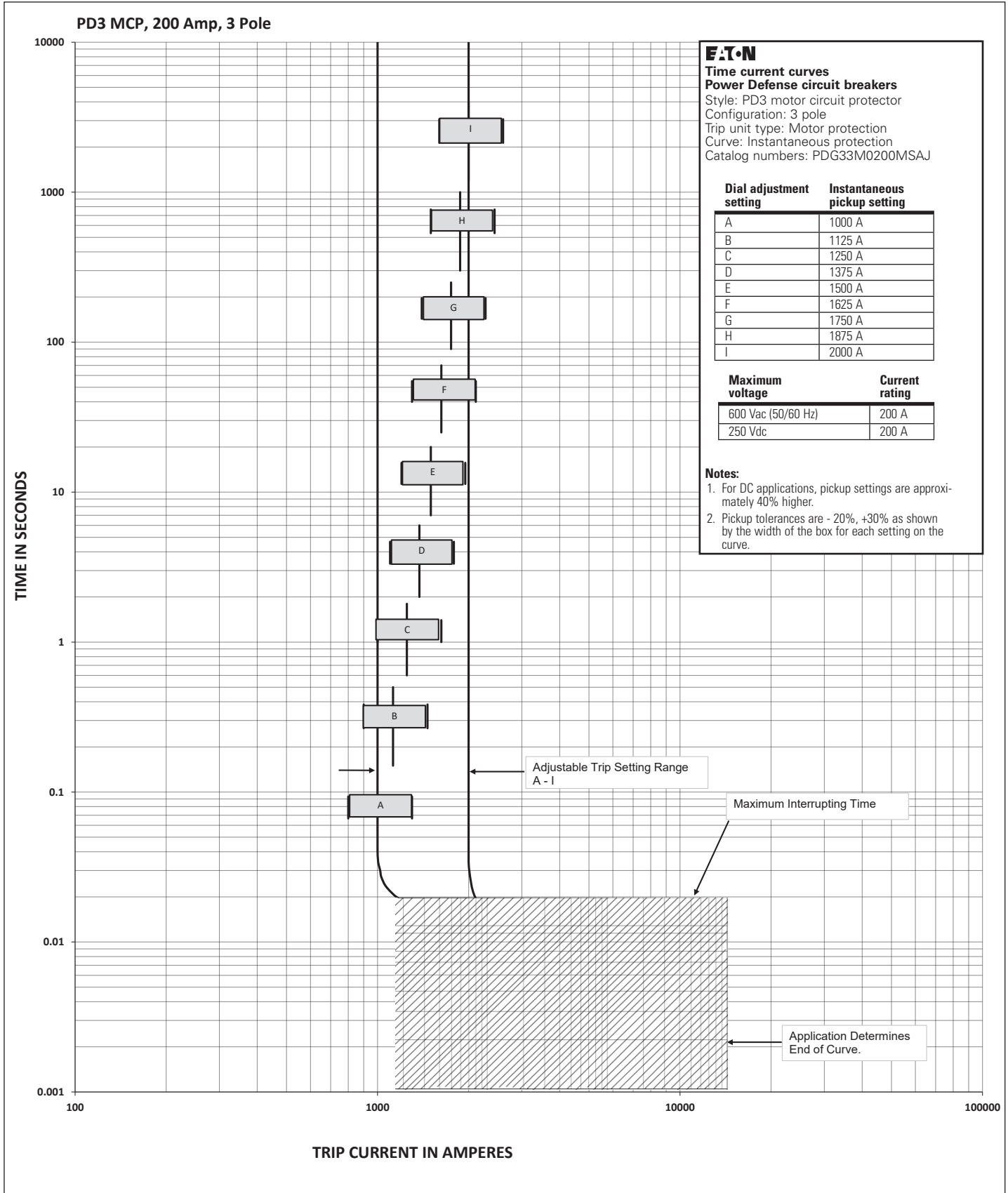


Figure 26. PD3 MCP 200 amp standard calibration motor circuit protector.

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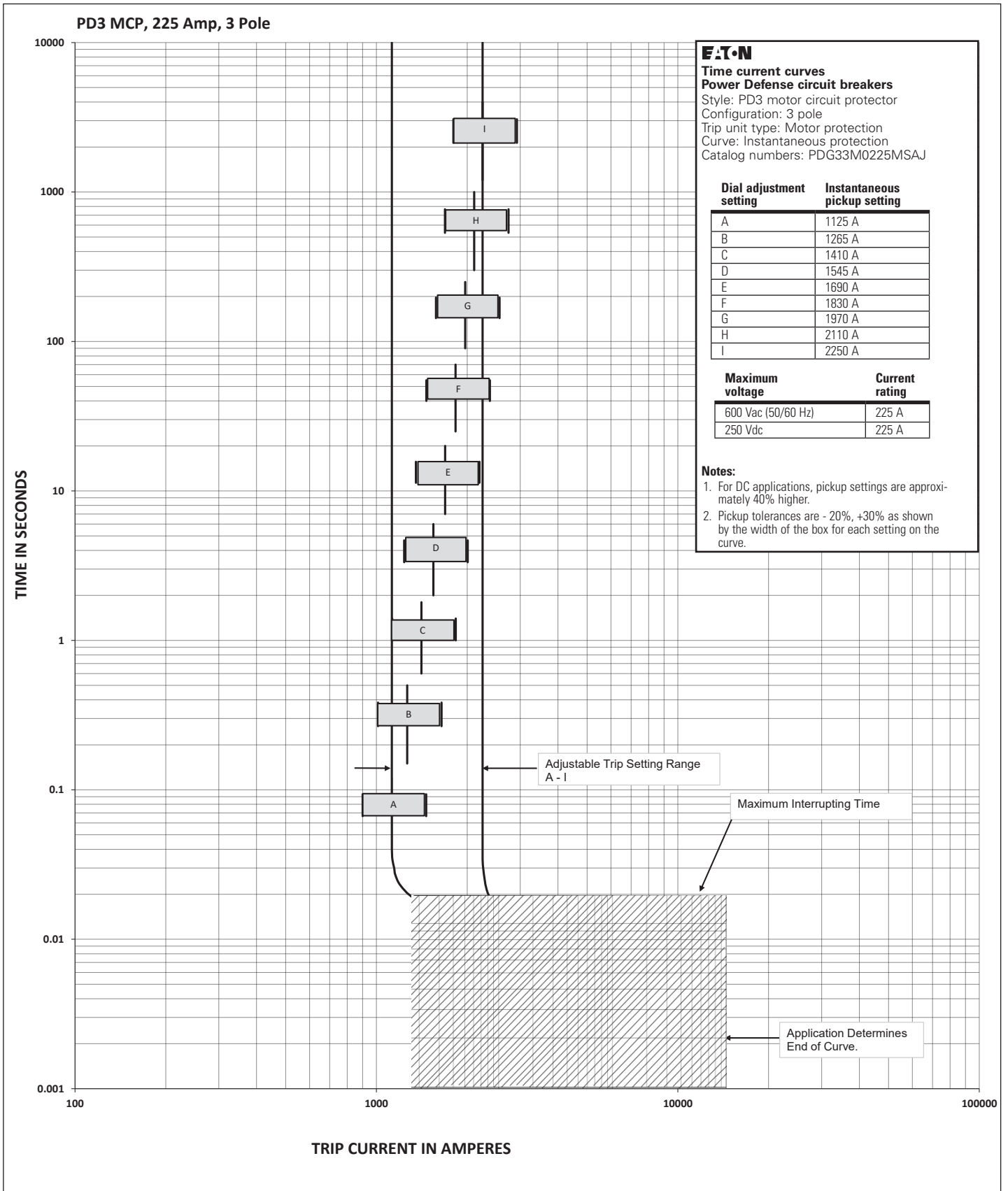


Figure 27. PD3 MCP 225 amp standard calibration motor circuit protector.

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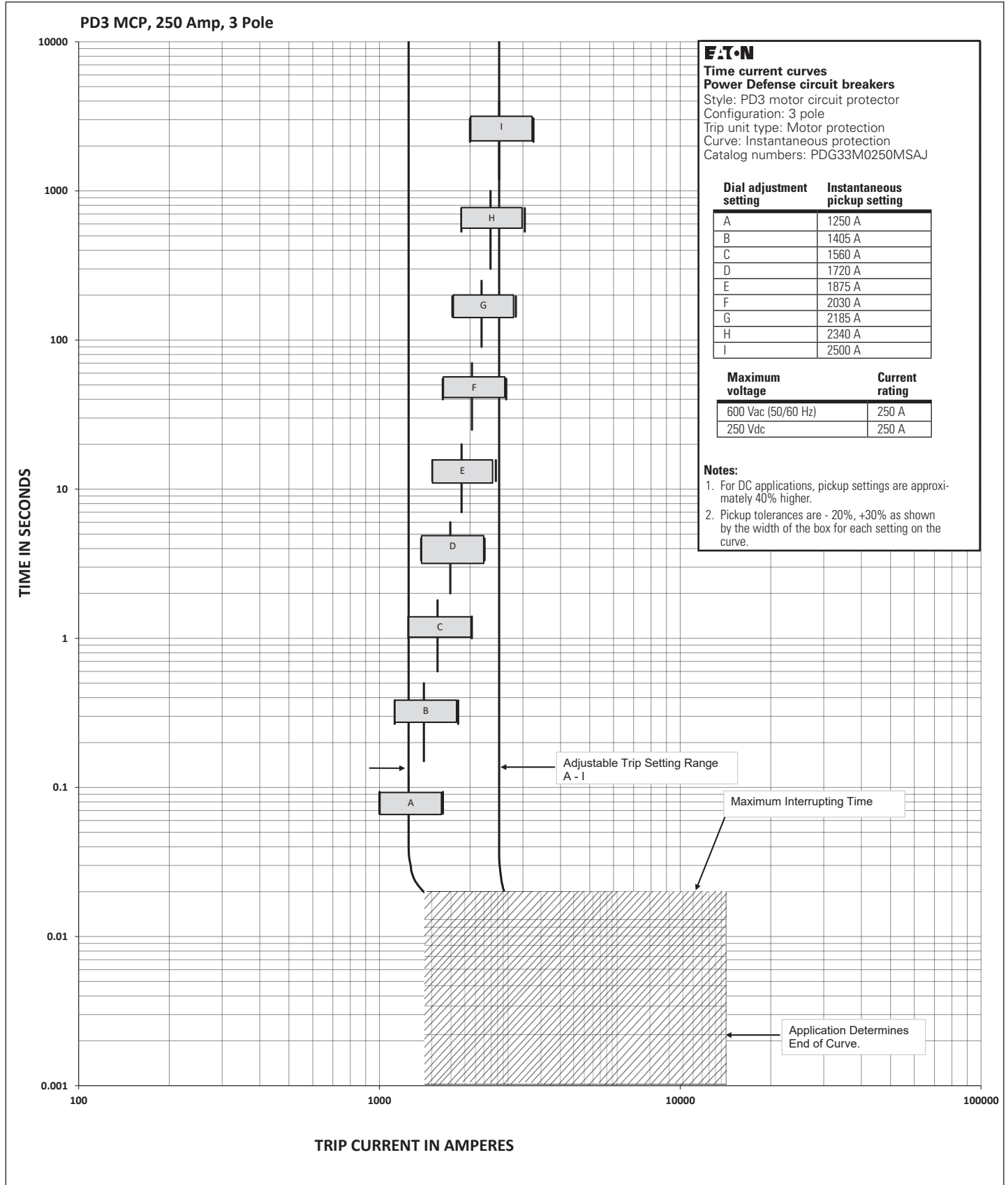


Figure 28. PD3 MCP 250 amp standard calibration motor circuit protector.

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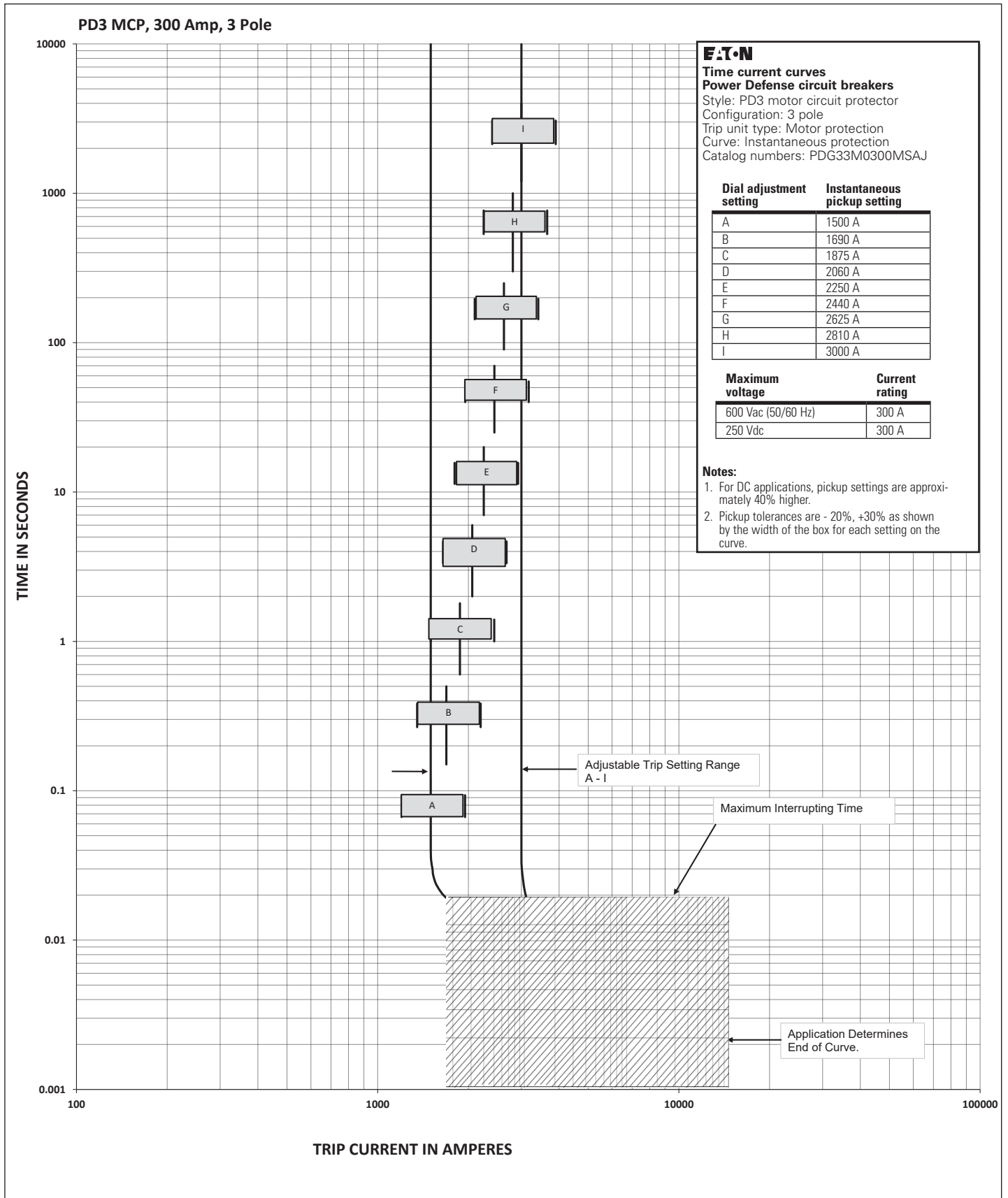


Figure 29. PD3 MCP 300 amp standard calibration motor circuit protector.

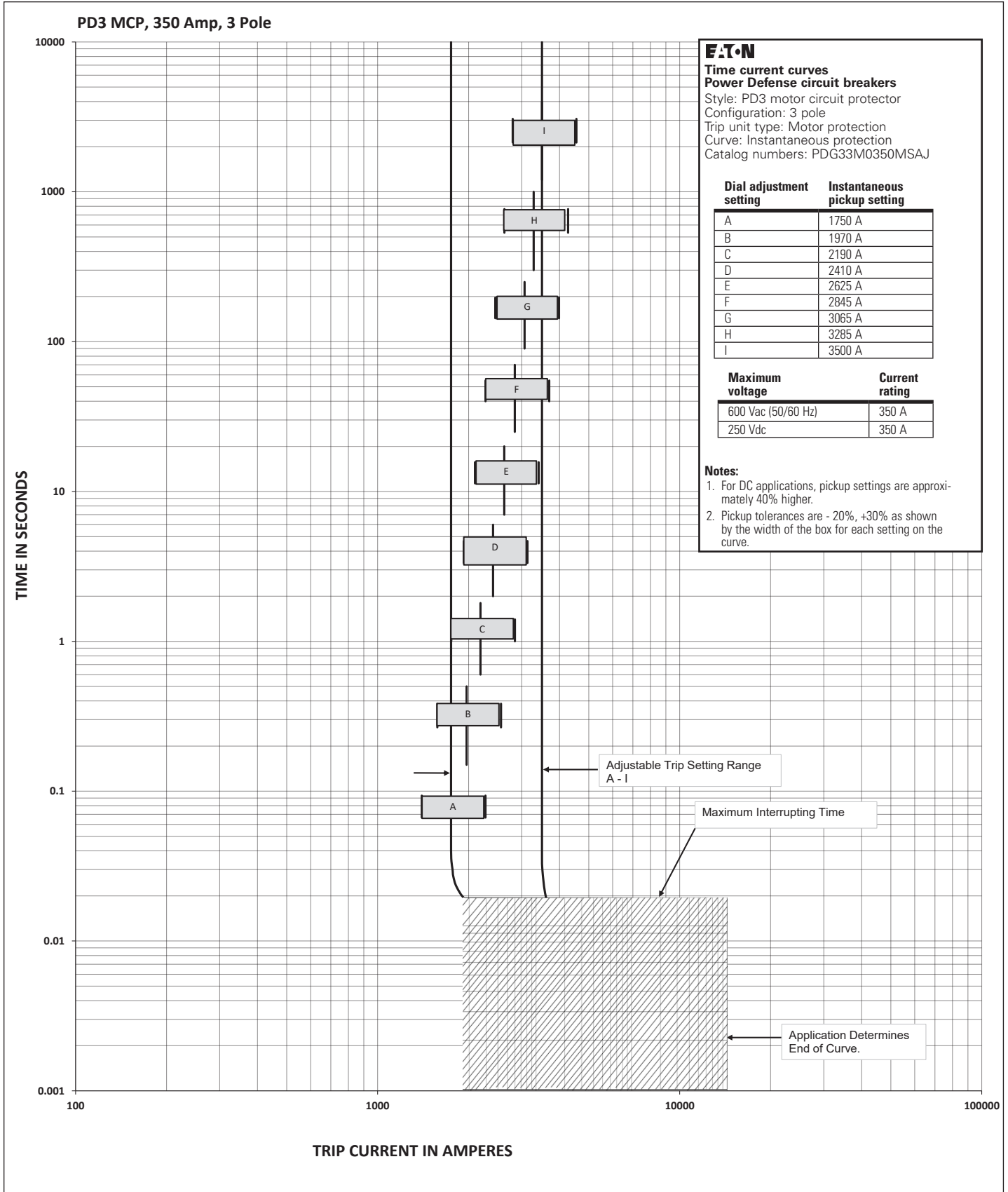


Figure 30. PD3 MCP 350 amp standard calibration motor circuit protector.

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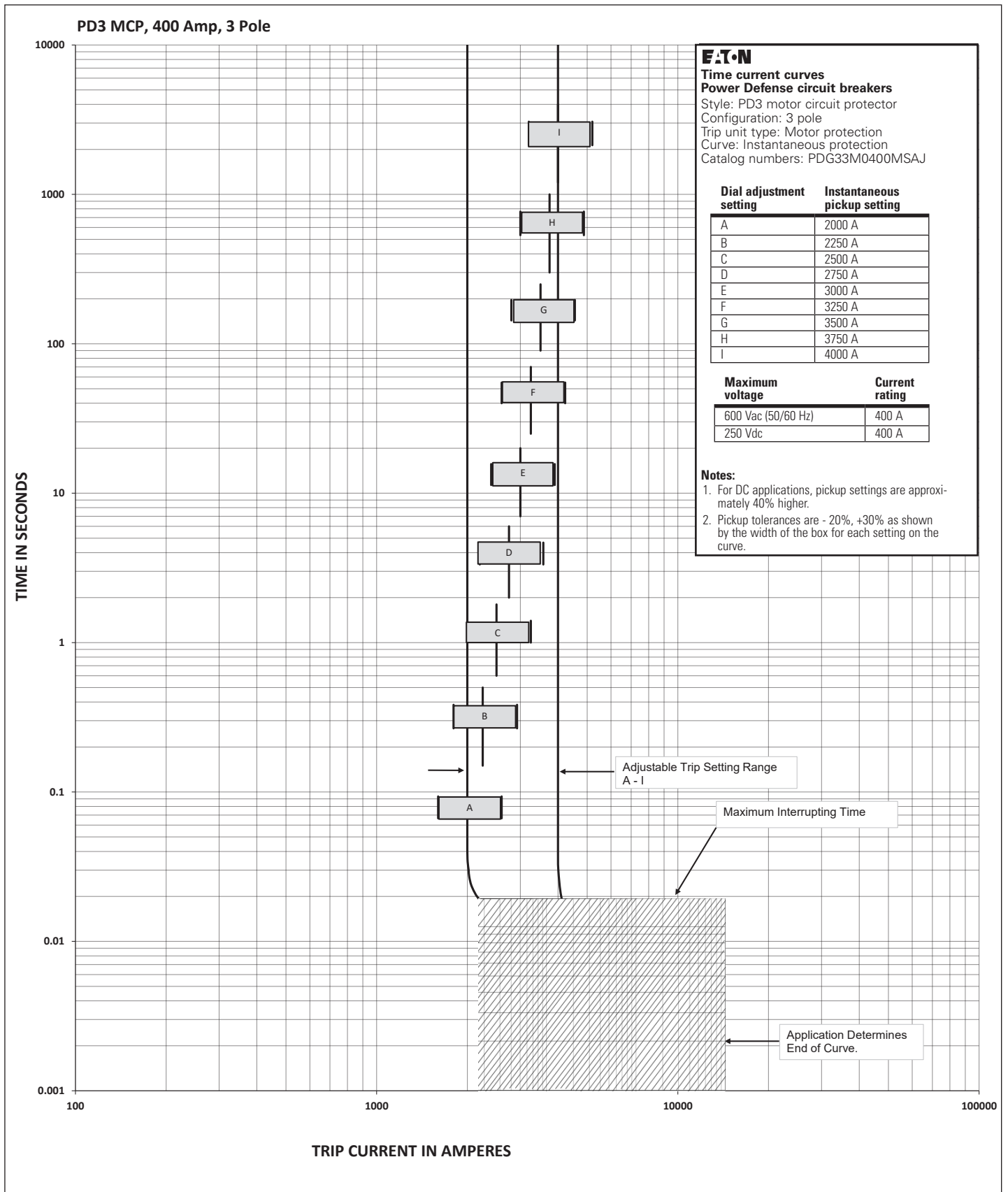


Figure 31. PD3 MCP 400 amp standard calibration motor circuit protector.

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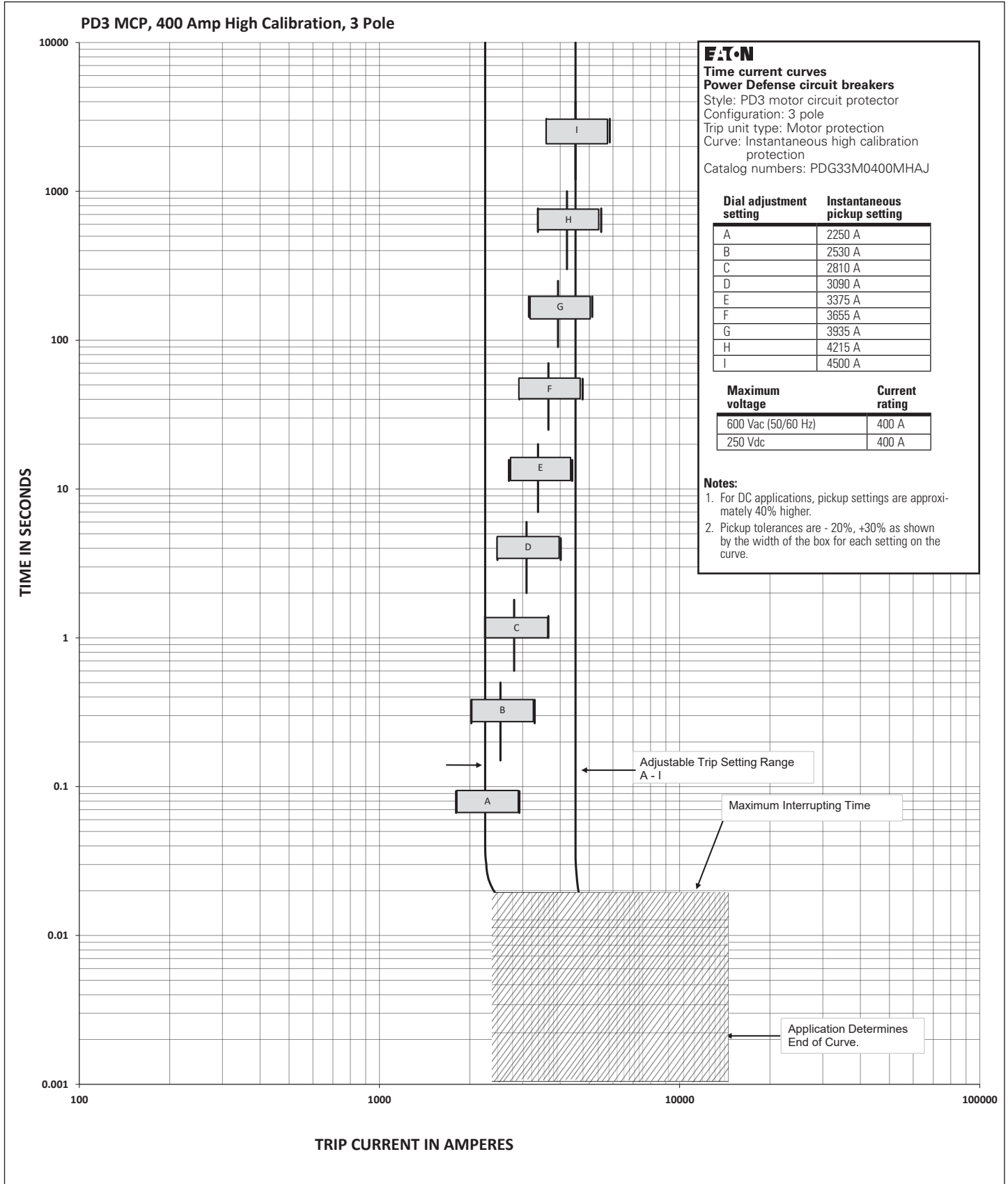


Figure 32. PD3 MCP 400 amp high calibration motor circuit protector.

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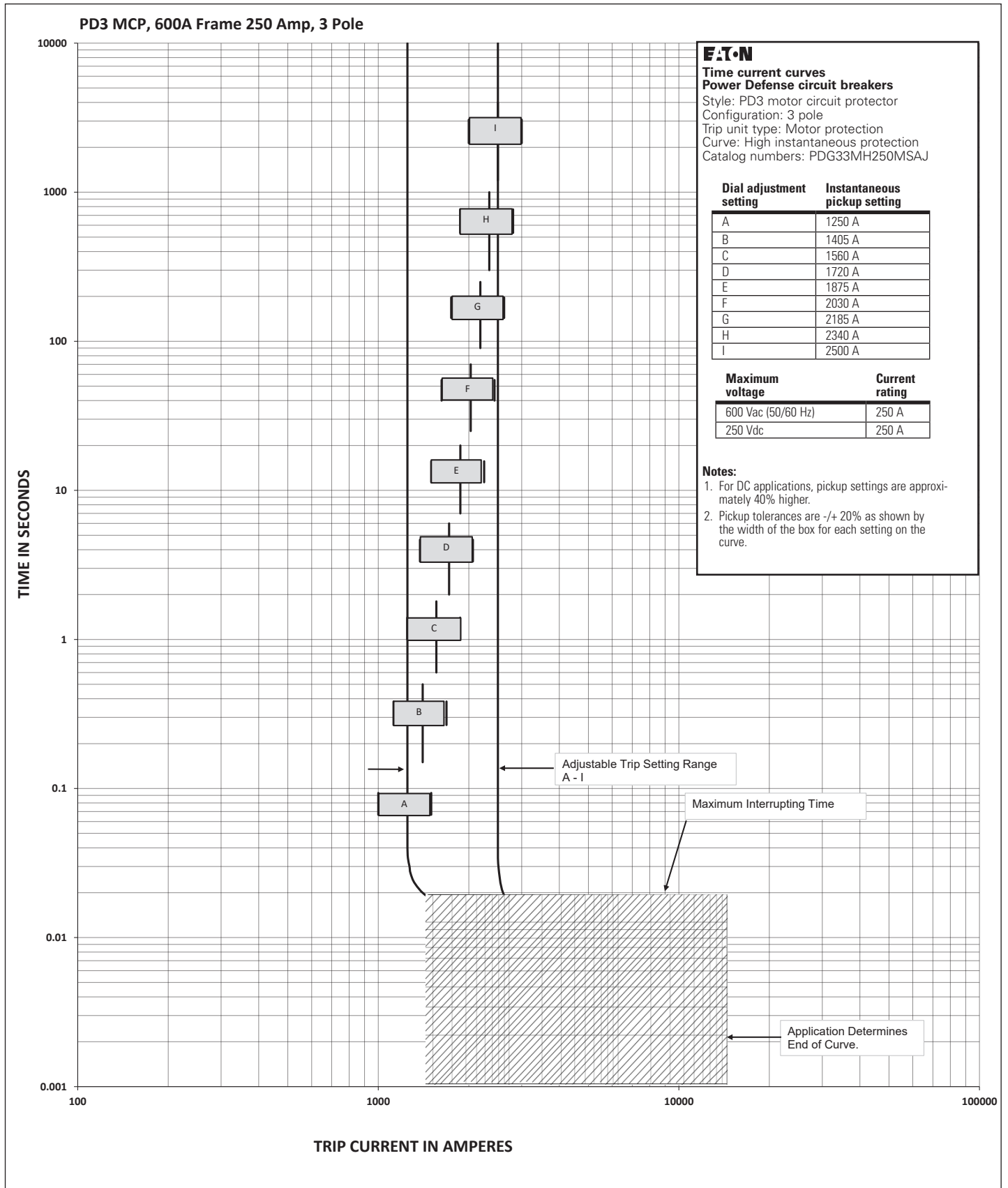


Figure 33. PD3 MCP 600A frame 250 amp standard calibration motor circuit protector.

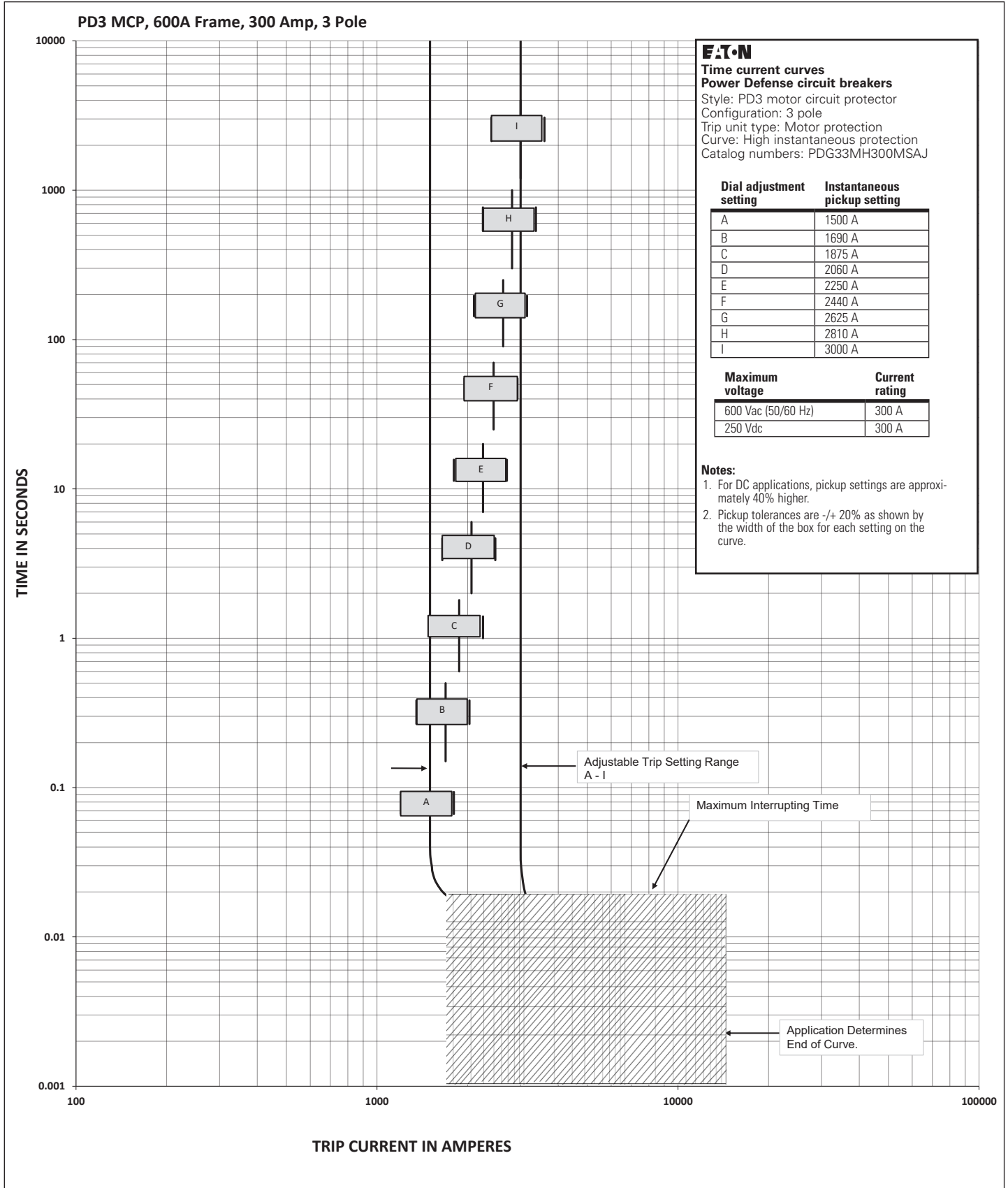


Figure 34. PD3 MCP 600A frame 300 amp standard calibration motor circuit protector.

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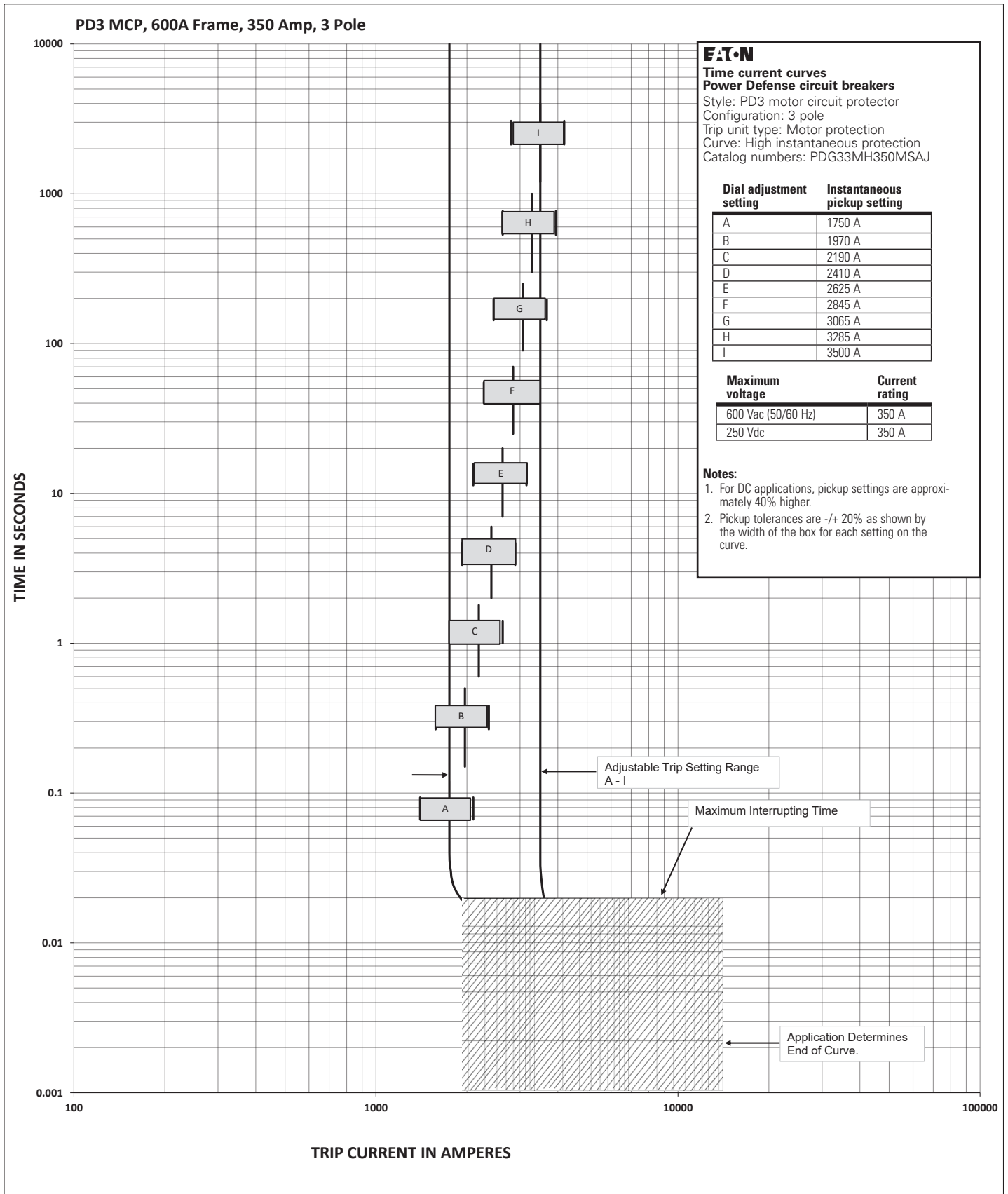


Figure 35. PD3 MCP 600A frame 350 amp standard calibration motor circuit protector.

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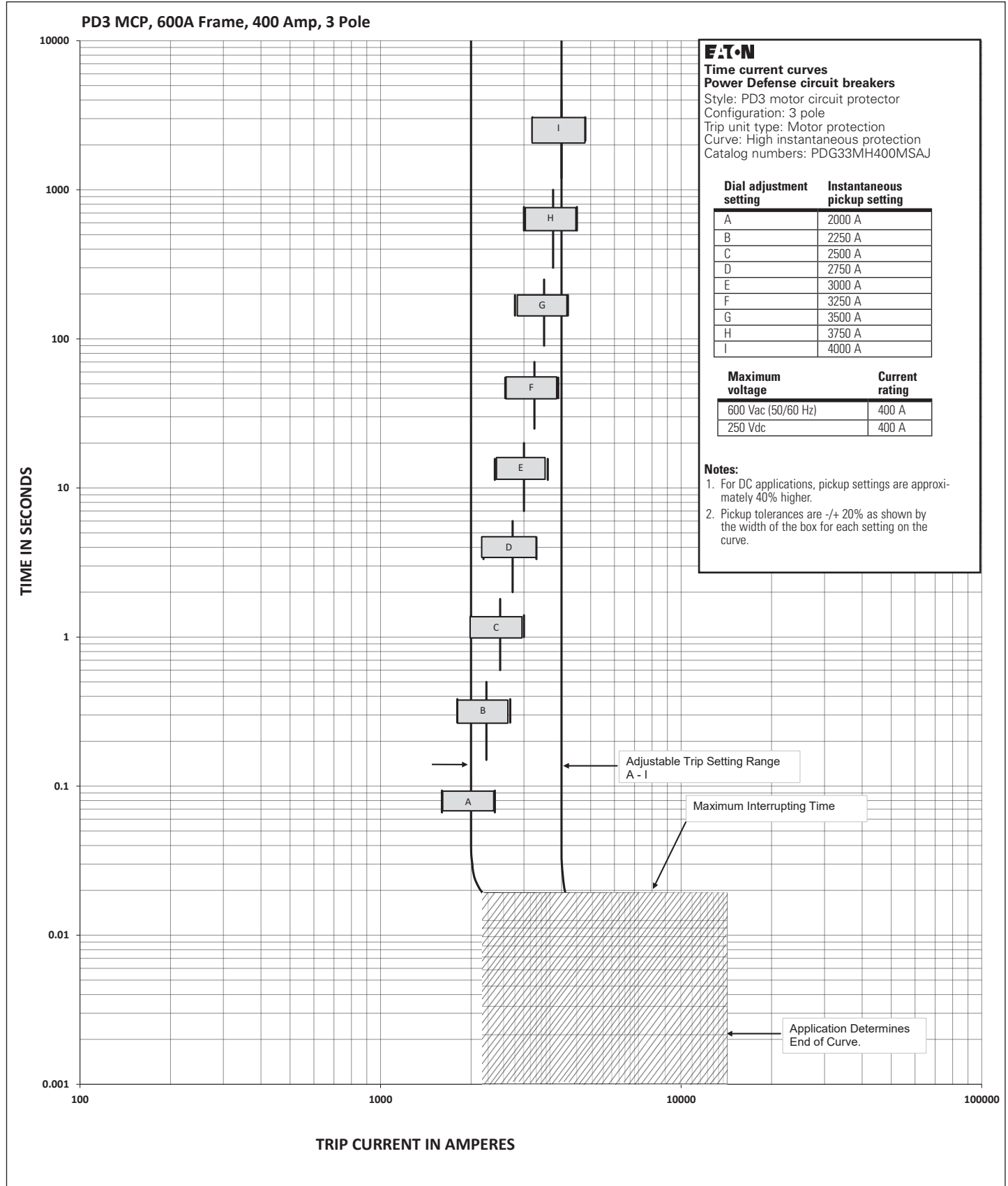


Figure 36. PD3 MCP 600A frame 400 amp standard calibration motor circuit protector.

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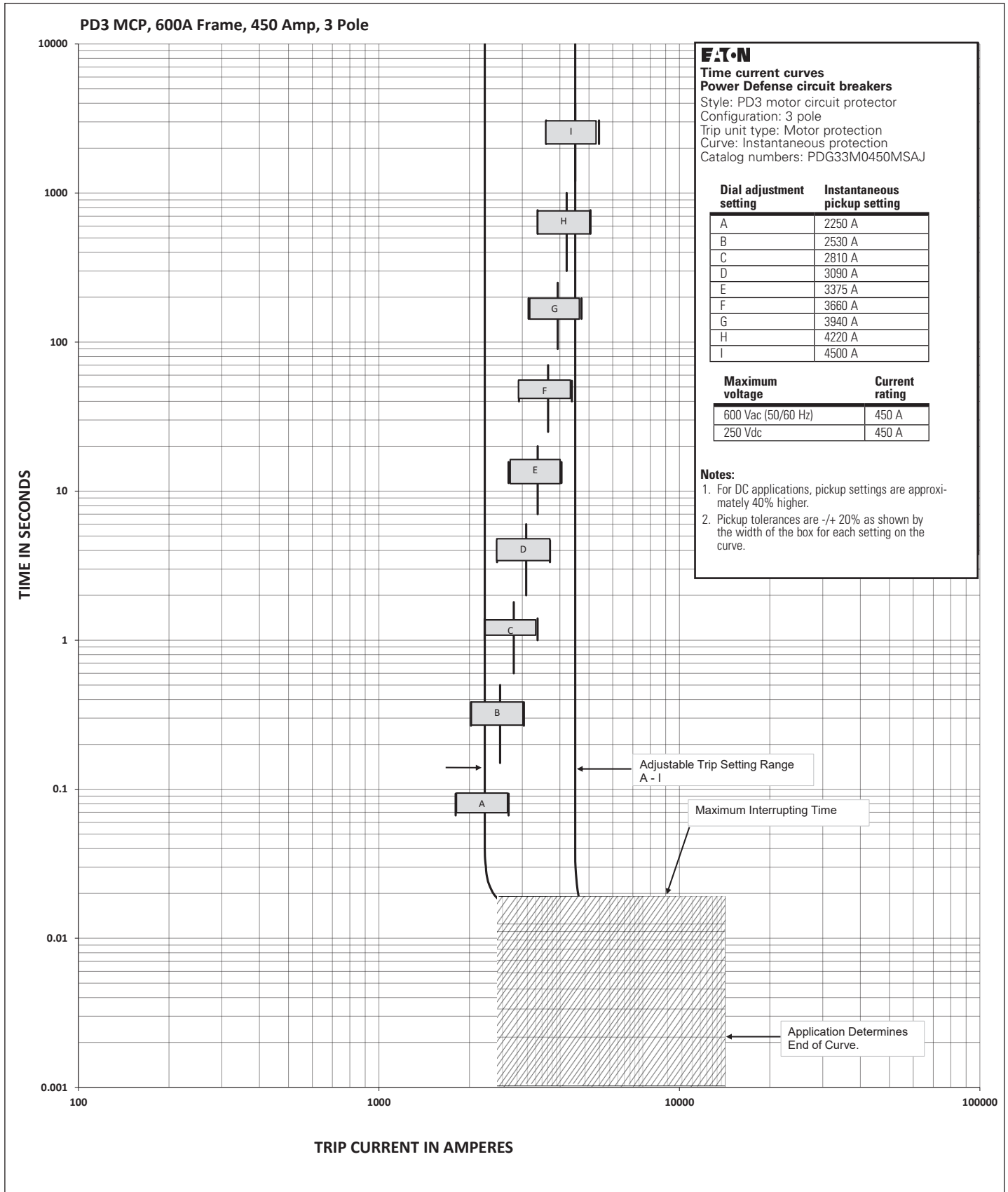


Figure 37 : PD3 MCP 600A frame 450 amp standard calibration motor circuit protector.

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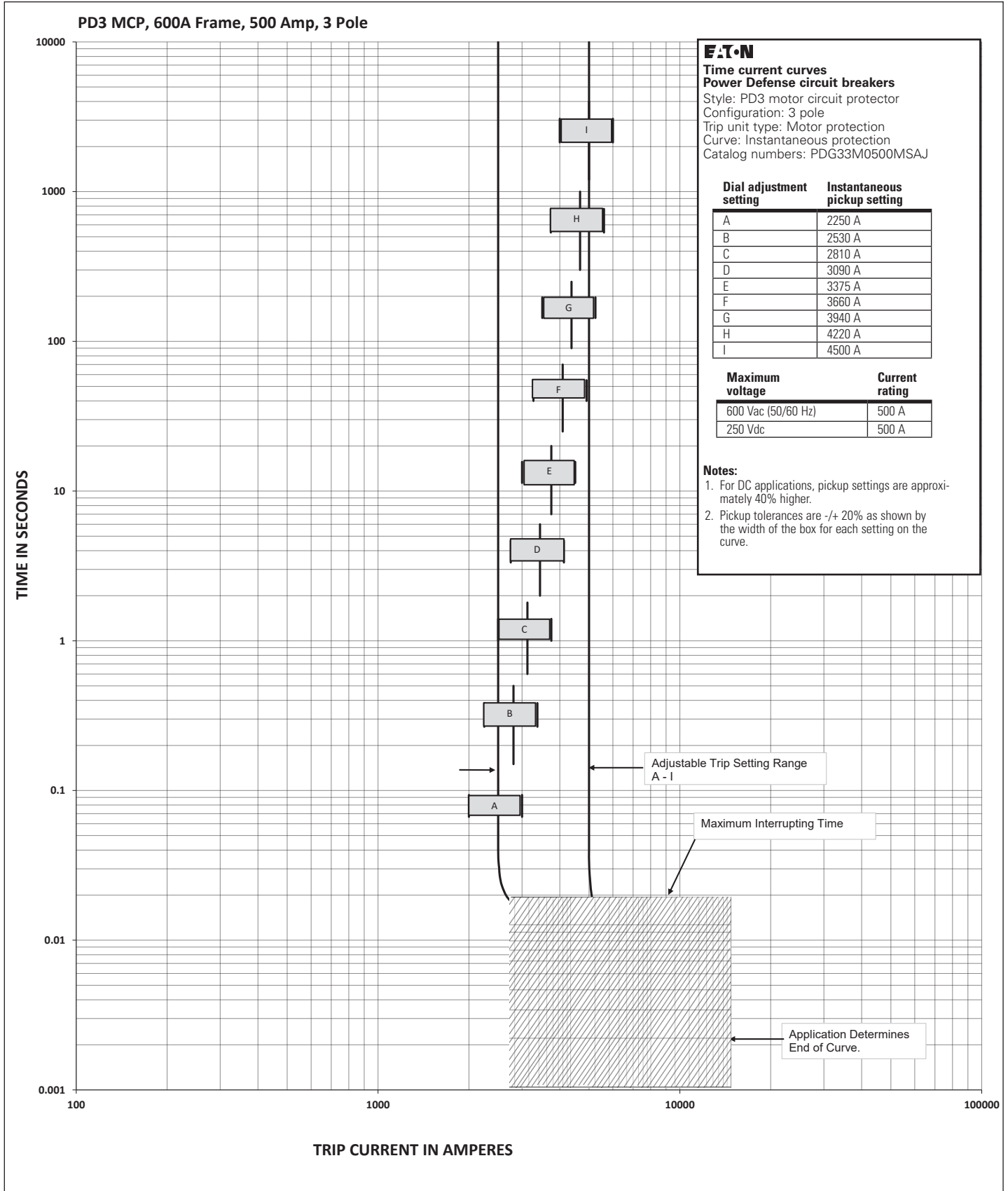


Figure 38. PD3 MCP 600A frame 500 amp standard calibration motor circuit protector.

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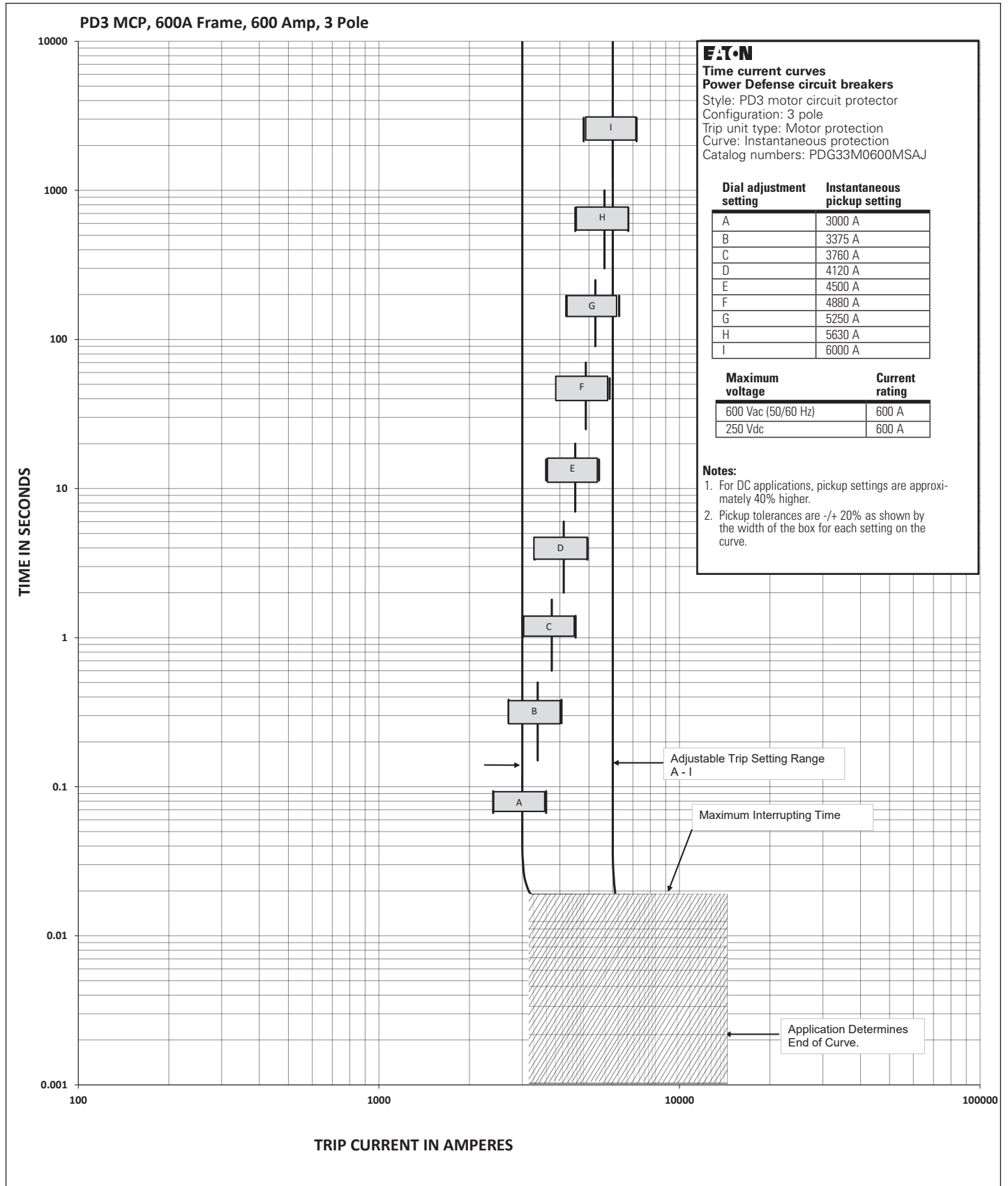


Figure 39. PD3 MCP 600A frame 600 amp standard calibration motor circuit protector

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