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 2. Circuit breaker catalog number convention

PDG2 3 M 0225 P 2 M J

Breaker family
PDG2 = Frame 2 Global UL / CSA / IEC / GB
PDF2 = Frame 2 Global-100% UL / CSA / IEC / GB (uses PDG trip units)
PDD2 = Frame 2 IEC / GB
PDC2 = Frame 2 IEC / GB
PDC9 = Frame 9 IEC / GB

Interrupting rating designator	
kA at 480 V (UL)	**IA at 415 V (IEC)**
F = 25	25
G = 35	35
K = 50	50
M = 65	70
N = 85	70
P = 100	100

Poles
1 = 1 pole
2 = 2 pole
3 = 3 pole
4 = 4 pole with 100% neutral protection
6 = 4 pole with 60% neutral protection
0 = 4 pole with 0% neutral protection

Continous current rating
0015 = 15 A
0020 = 20 A
0025 = 25 A
0030 = 30 A
0035 = 35 A
0040 = 40 A
0045 = 45 A
0050 = 50 A
0060 = 60 A
0063 = 63 A IEC only
0070 = 70 A
0080 = 80 A
0090 = 90 A
0100 = 100 A
0110 = 110 A
0125 = 125 A
0150 = 150 A
0160 = 160 A IEC only
0175 = 175 A
0200 = 200 A
0225 = 225 A
0250 = 250 A IEC only

ETU trip unit style
B = PXR 10
E = PXR 20
D = PXR 200
P = PXR 25
Thermal magnetic style
T = Thermal
V = Thermal 50° C calibrated

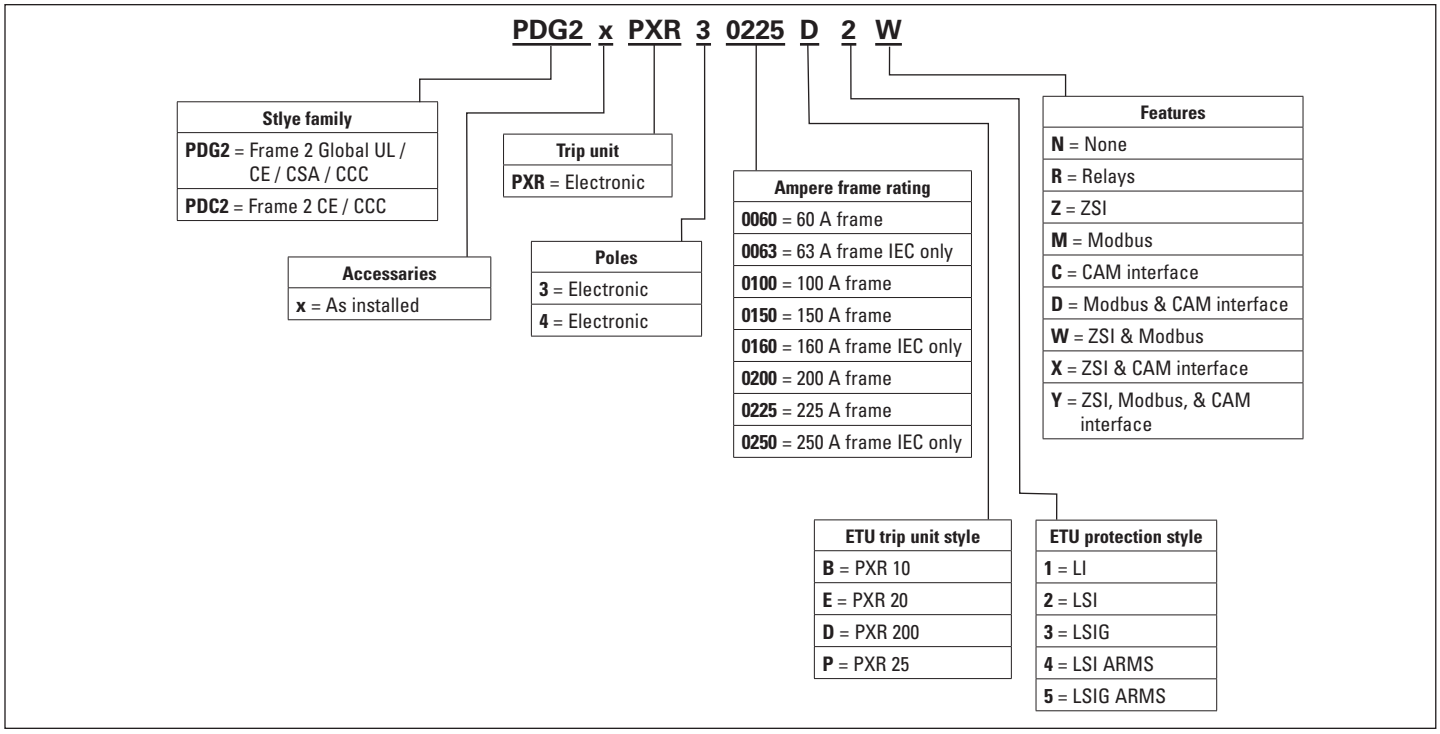
Features
N = None
R = Relays
Z = ZSI
M = Modbus
C = CAM interface
D = Modbus & CAM interface
W = ZSI & Modbus
X = ZSI & CAM interface
Y = ZSI, Modbus, & CAM interface
Magnetic Protection
A = Adjustable magnetic
F = Fixed magnetic

ETU protection style
1 = LI
2 = LSI
3 = LSIG
4 = LSI ARMS
5 = LSIG ARMS
Thermal magnetic style
F = Thermal
A= Thermal 50° C calibrated

Terminals included
N = No terminals
J = Line and load terminals
K = Line only terminals
L = Load only terminals

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

Table 3. Electronic trip unit catalog number convention

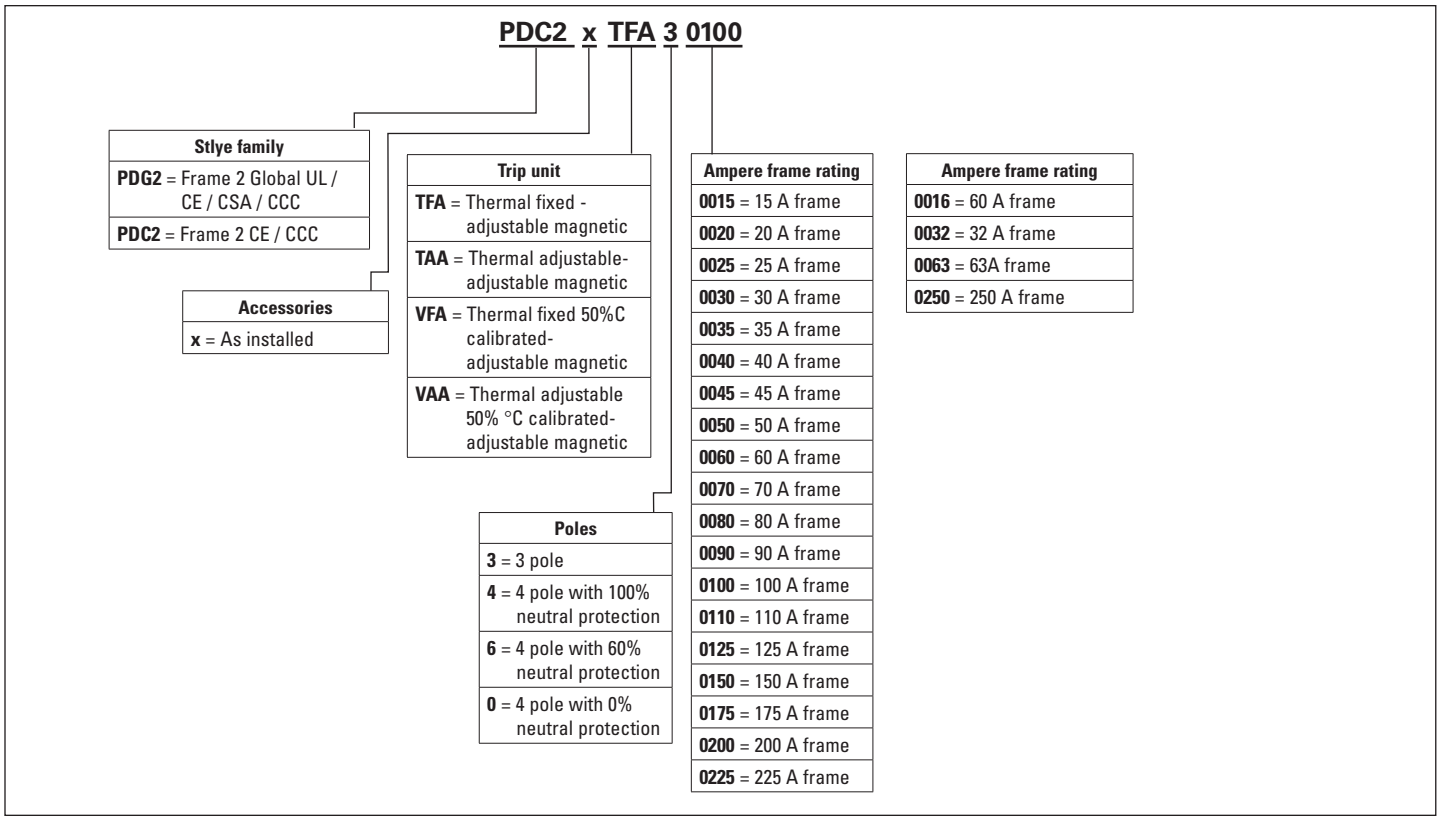


Note: IEC standard breakers include the CE mark; GB standard breakers include the CCC mark.

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 4. Thermal magnetic trip unit catalog number convention



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

Table 5. Symmetrical RMS interruption ratings I_{cu} (kA) for each breaker frame

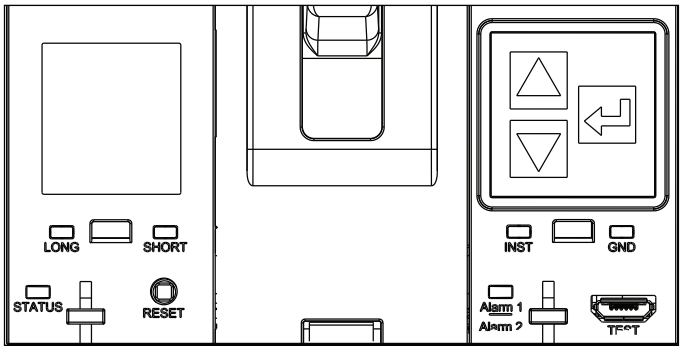
		UL / CSA			IEC / CCC							
	Voltage / Frame	240V	480V	600V	240V	415V	440V	480V	525V	690V	125Vdc	250Vdc*
Globally rated	**PDG2xF**	35	25	14	35	25	25	20	18	-	10	10
	PDG2xG	65	35	18	55	36	30	25	20	8	10	10
	PDG2xK	85	50	22	85	50	35	35	30/25	10	10	10
	PDG2xM	100	65	25	100	70	50	50	30/25	10	22	22
	PDG2xN	150	85	30/25	150	70	70	65	30/25	10	22	22
	PDG2xP	200	100	35/25	200	100	100	65	35/25	10	22	22
IEC / GB	**PDC2xF**	-	-	-	35	25	25	20	18	-	10	10
	PDC2xG	-	-	-	55	36	30	25	20	8	10	10
	PDC2xK	-	-	-	85	50	35	35	30/25	10	10	10
	PDC2xM	-	-	-	100	70	50	50	30/25	10	22	22
	PDC2xN	-	-	-	150	70	70	65	30/25	10	22	22
UL/CSA Rated up to 240V	**PDD2xF**	35	-	-	-	-	-	-	-	-	10	10
	PDD2xG	65	-	-	-	-	-	-	-	-	10	10
	PDD2xK	85	-	-	-	-	-	-	-	-	10	10
	PDD2xM	100	-	-	-	-	-	-	-	-	22	22
	PDD2xN	150	-	-	-	-	-	-	-	-	22	22
	PDD2xP	200	-	-	-	-	-	-	-	-	22	22

* Two poles in series

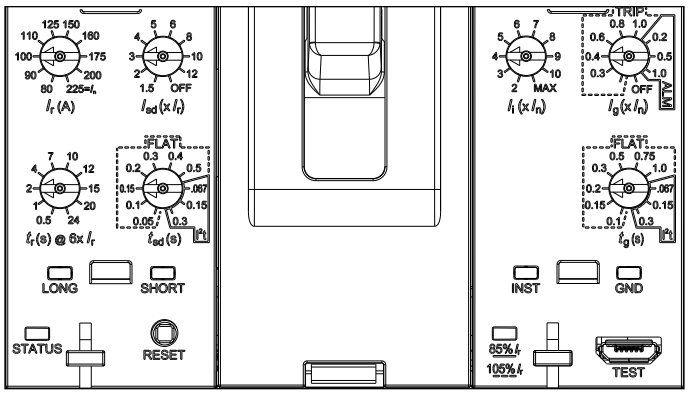
Table 6. Curve notes

1.	These curves apply for 50Hz and 60Hz applications
2.	The maximum voltage rating for the frame style is stated in Table 5.
3.	These curves are comprehensive for Power Defense style circuit breakers 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. The bottom of the time band is the minimum commit to trip time.
5.	The end of the curve is determined by the application or the interrupting rating of the circuit breaker.
6.	Thermal Magnetic trip unit calibration based on 40°C ambient, cold start. Tested with 4 feet of rated wire (75°C) per terminal. Tested in open air with current in all poles.
7.	Thermal Magnetic trip unit instantaneous calibration based on single pole testing.
8	All time current data for PXR is based on 3 phase testing. For ground testing refer to Instruction Leaflet IL012125EN..

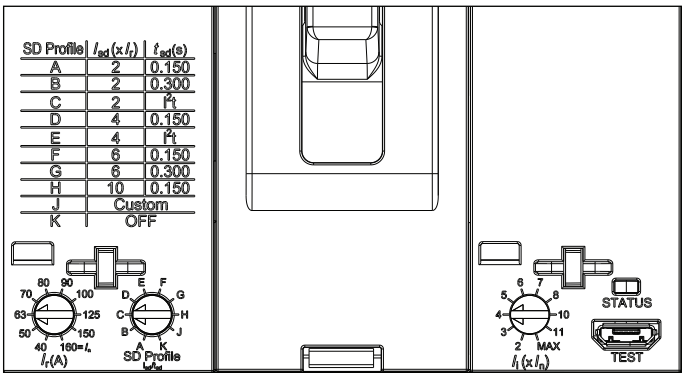
Labels



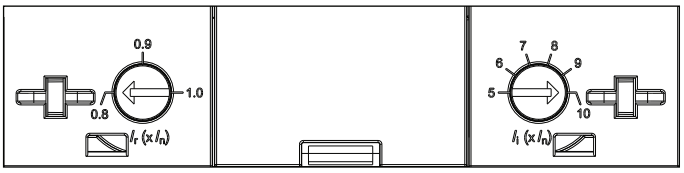
PXR 25 and PXR 20 – unit with LSIG protection pictured



PXR 20 – unit with LSIG protection pictured



PXR 10 – unit with LSI protection pictured



Adjustable thermal, adjustable magnetic unit pictured

Figure 1. Power Defense frame 2 trip unit front labels.

Note: Trip unit drawings in Figure 1 are representative of the face plates provided. Values on the trip unit dials will change based upon the specific breaker and trip unit. Refer to the time current curve of the breaker or the PXR User Guide for the specific settings.

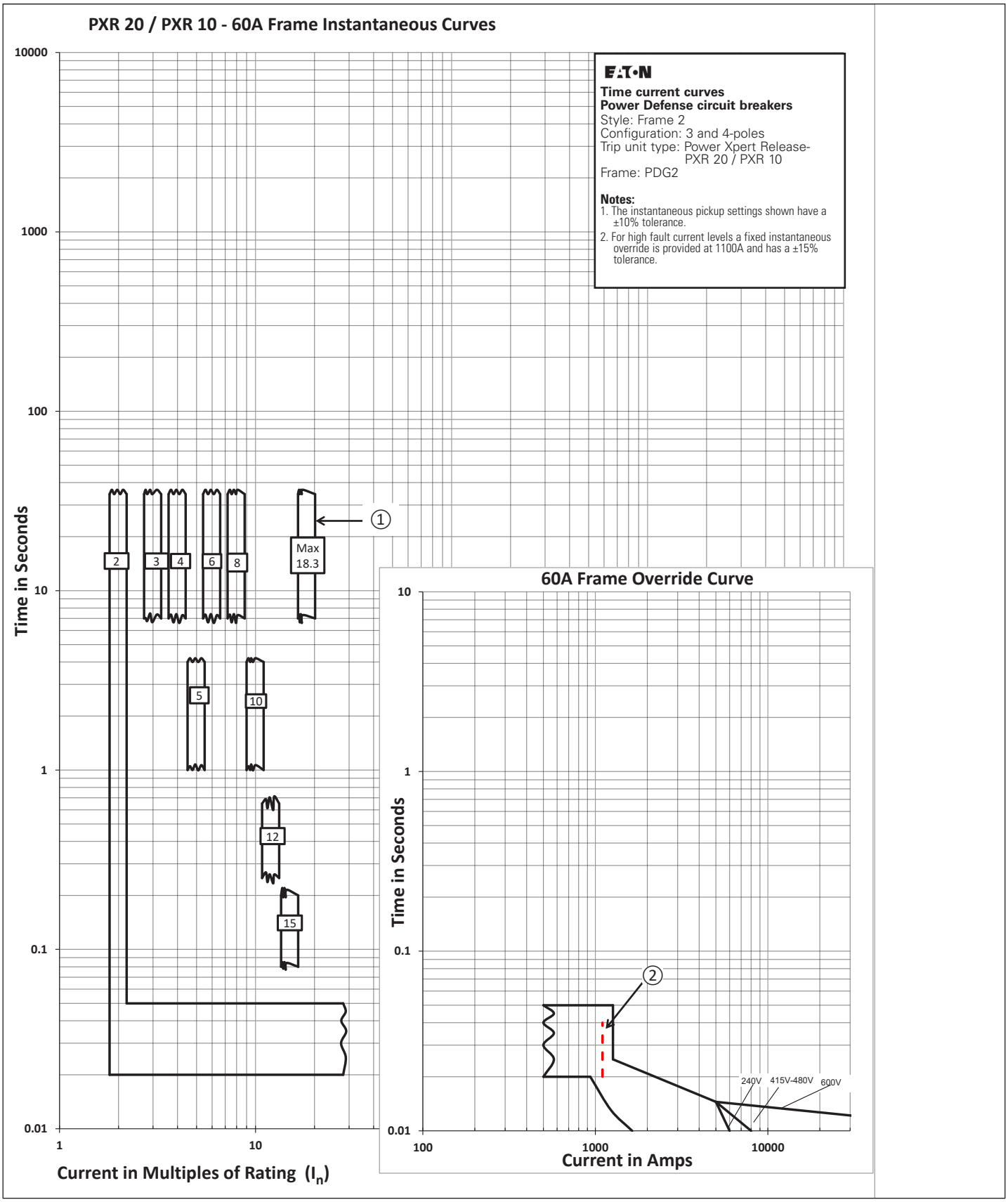


Figure 23. PXR 20 / PXR 10 - instantaneous and override for 60A frame.

April 2022

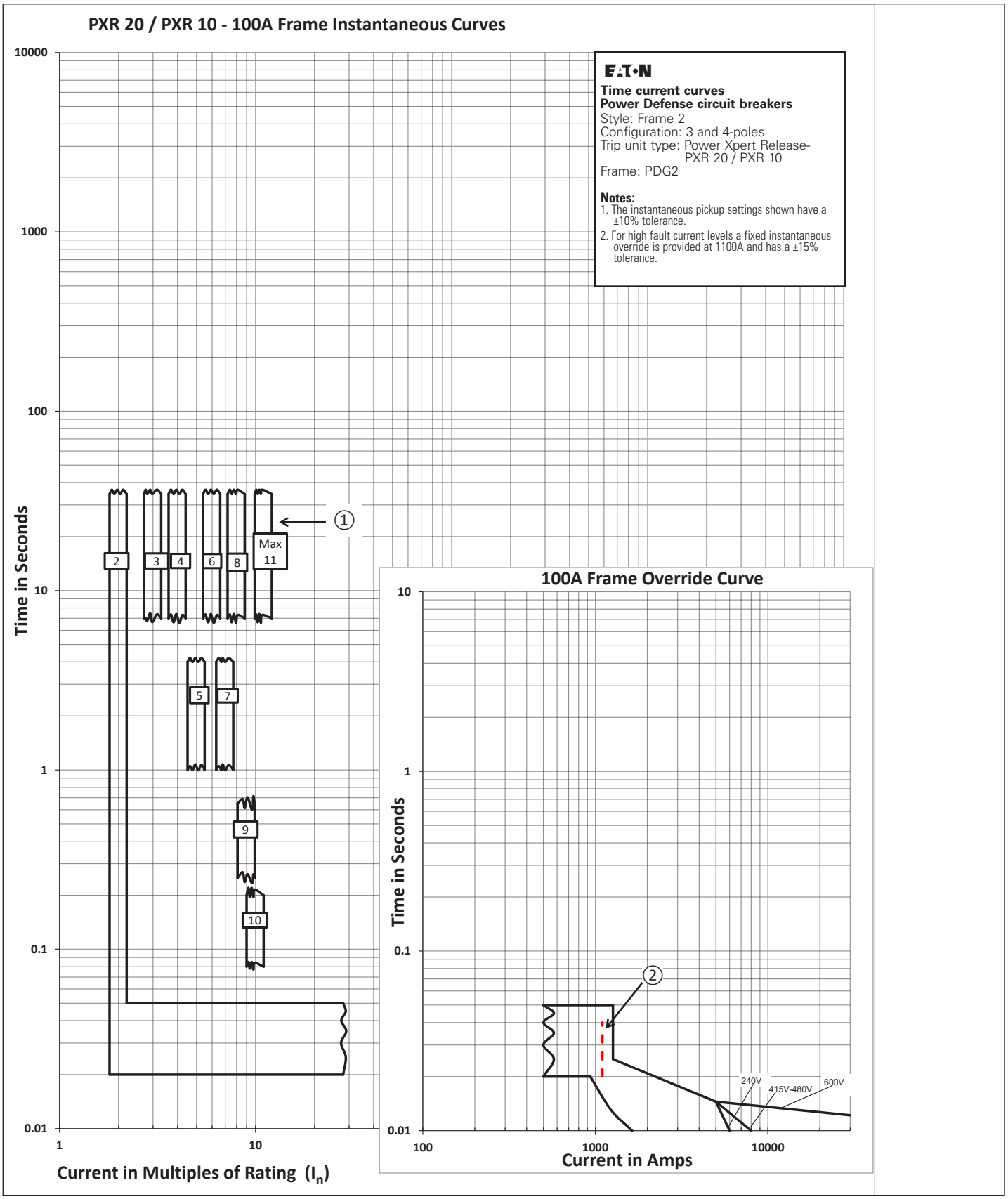


Figure 24. PXR 20 / PXR 10 - instantaneous and override for 100A frame.

April 2022

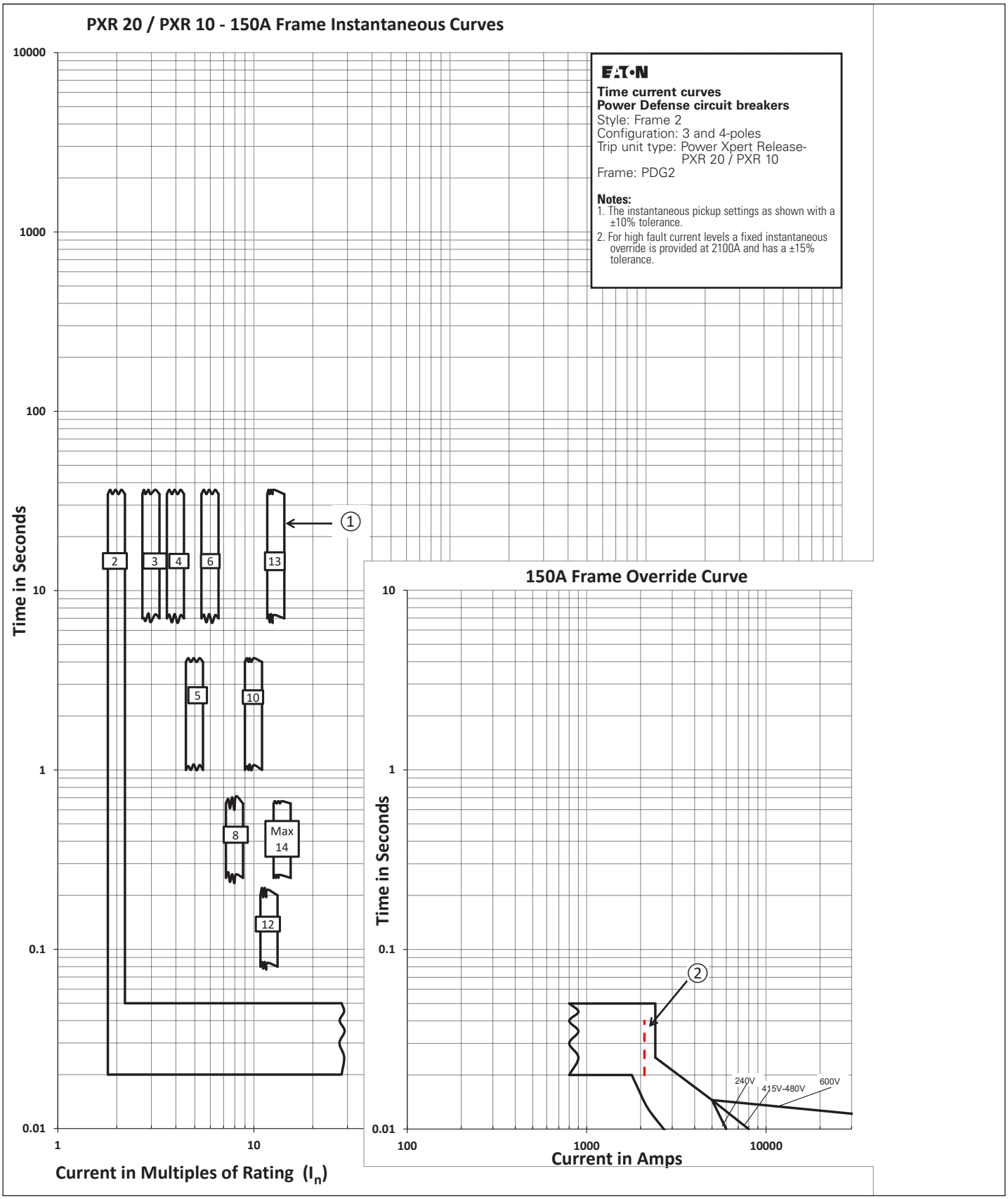


Figure 25. PXR 20 / PXR 10 - instantaneous and override for 150A frame.

April 2022

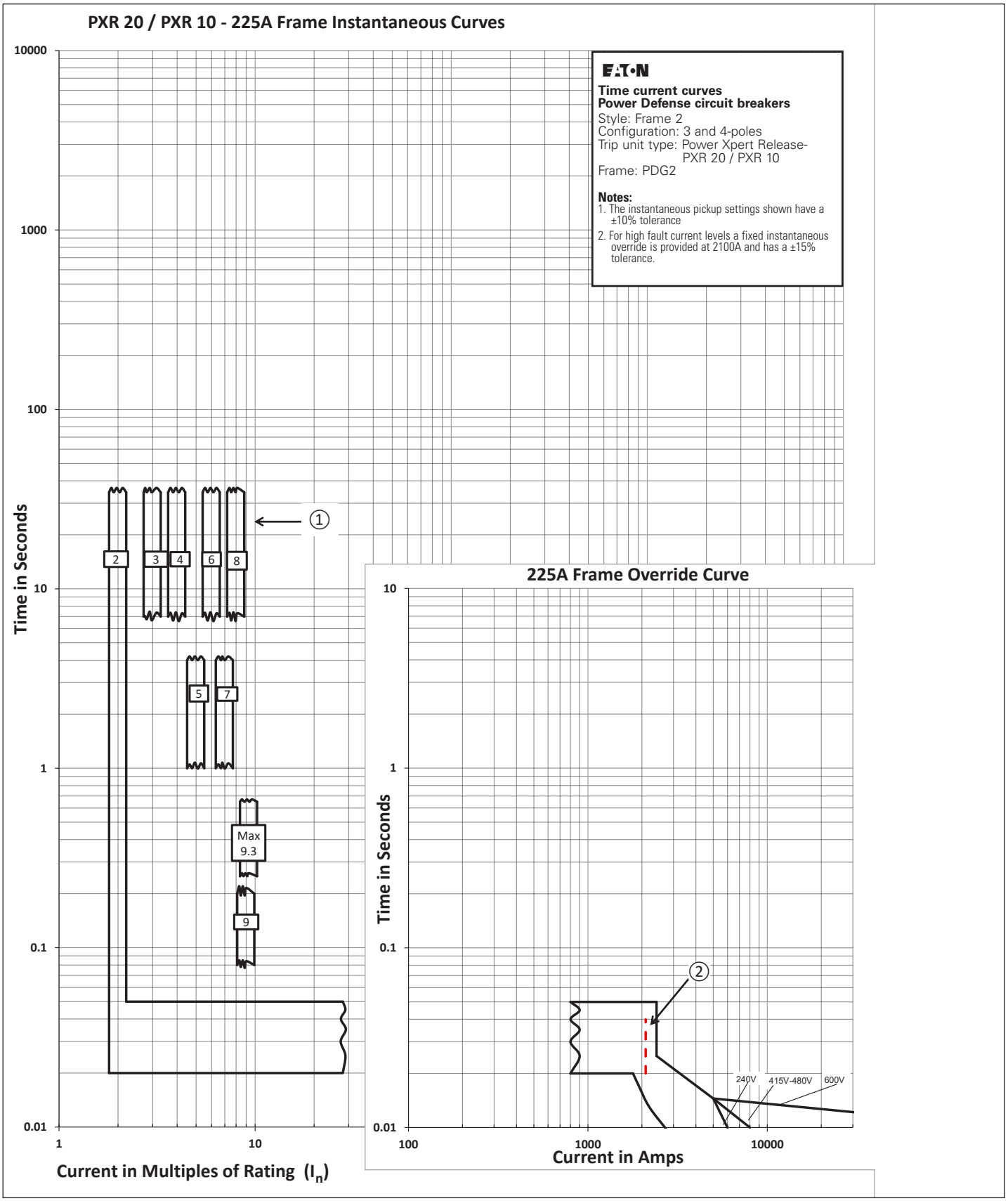


Figure 26. PXR 20 / PXR 10 - instantaneous and override for 225A frame.

April 2022

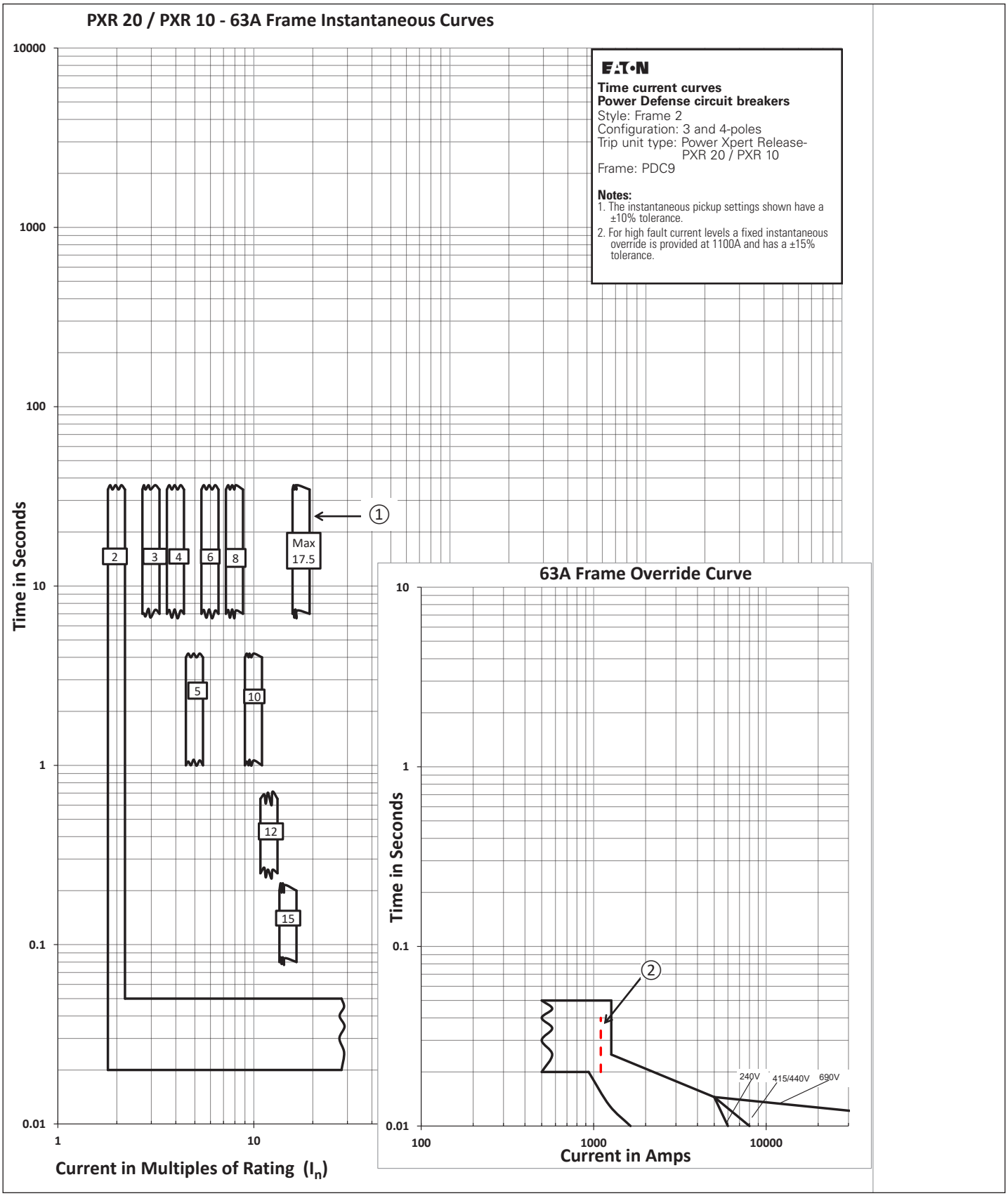


Figure 27. PXR 20 / PXR 10 - instantaneous and override for 63A frame.

April 2022

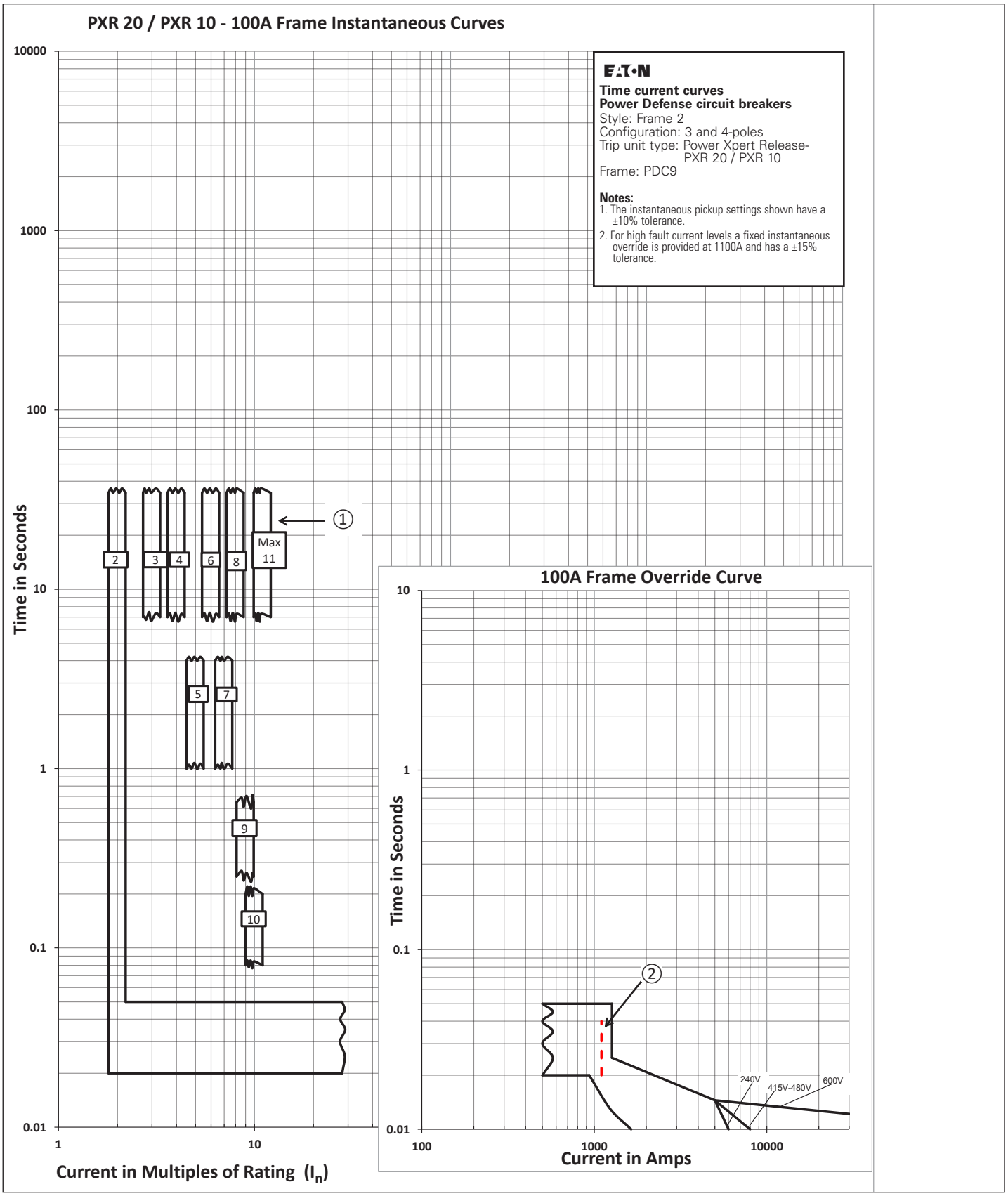


Figure 28. PXR 20 / PXR 10 - instantaneous and override for 100A frame.

April 2022

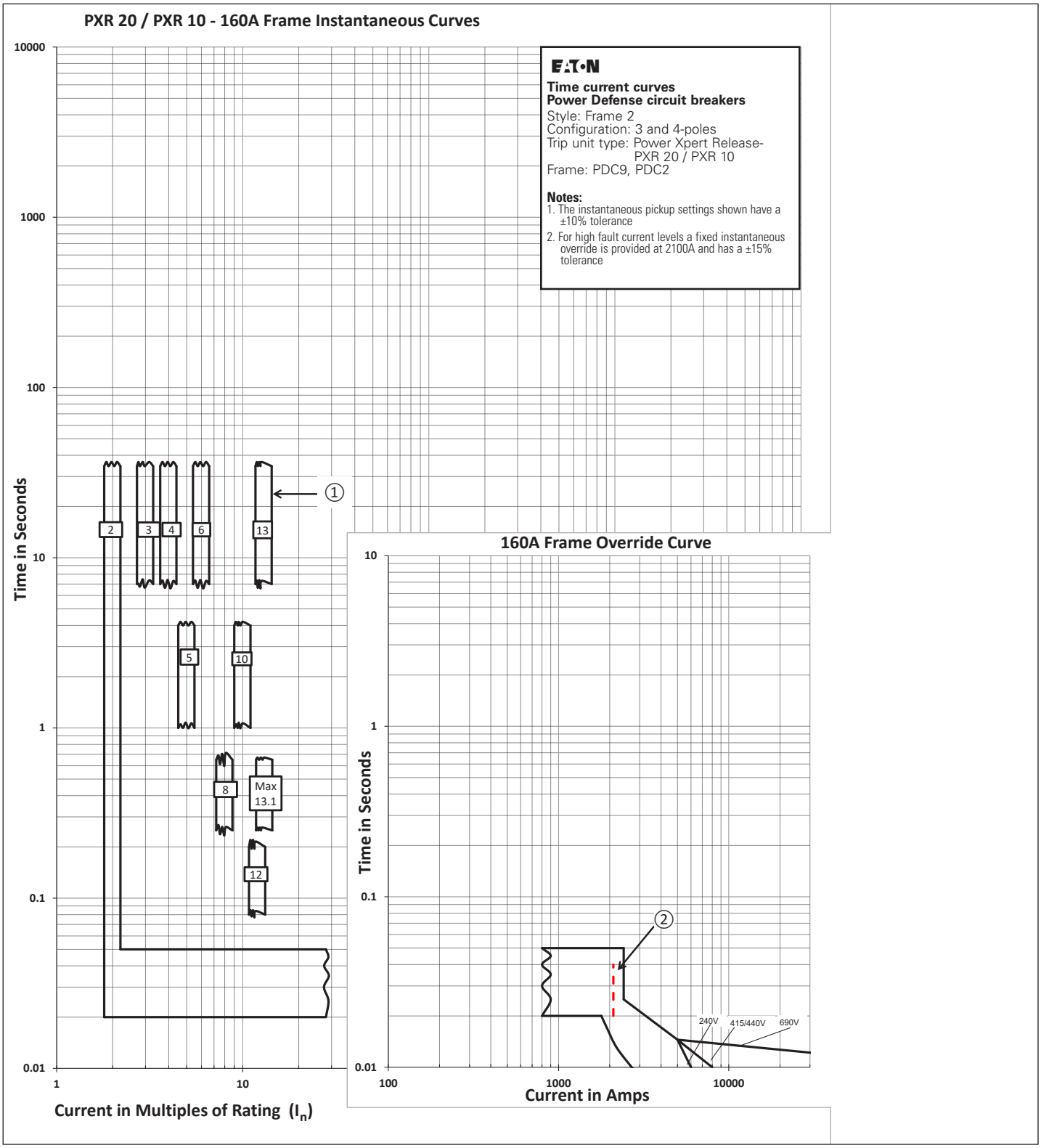


Figure 29. PXR 20 / PXR 10 - instantaneous and override for 160A frame.

April 2022

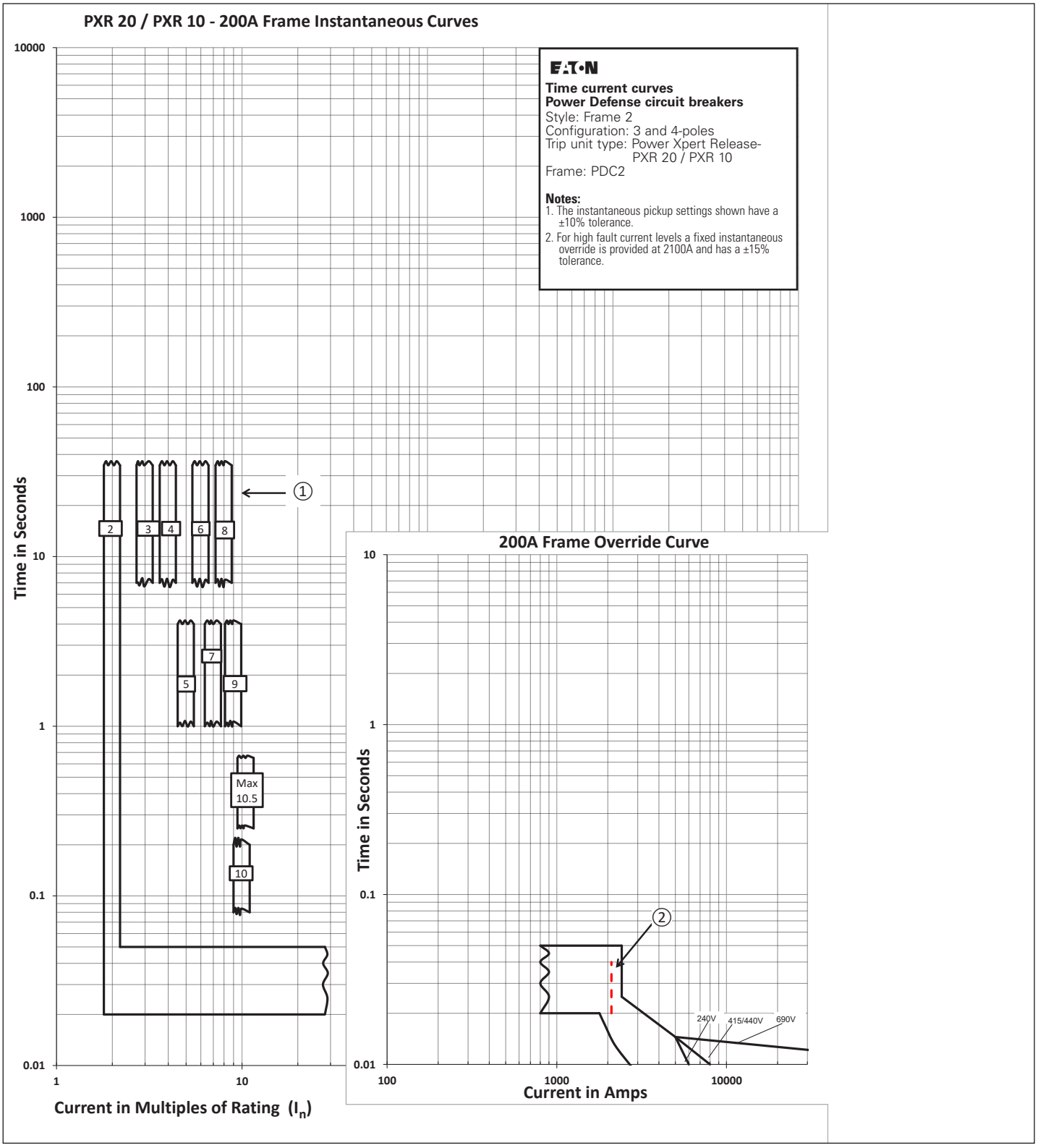


Figure 30. PXR 20 / PXR 10 - instantaneous and override for 200A frame.

April 2022

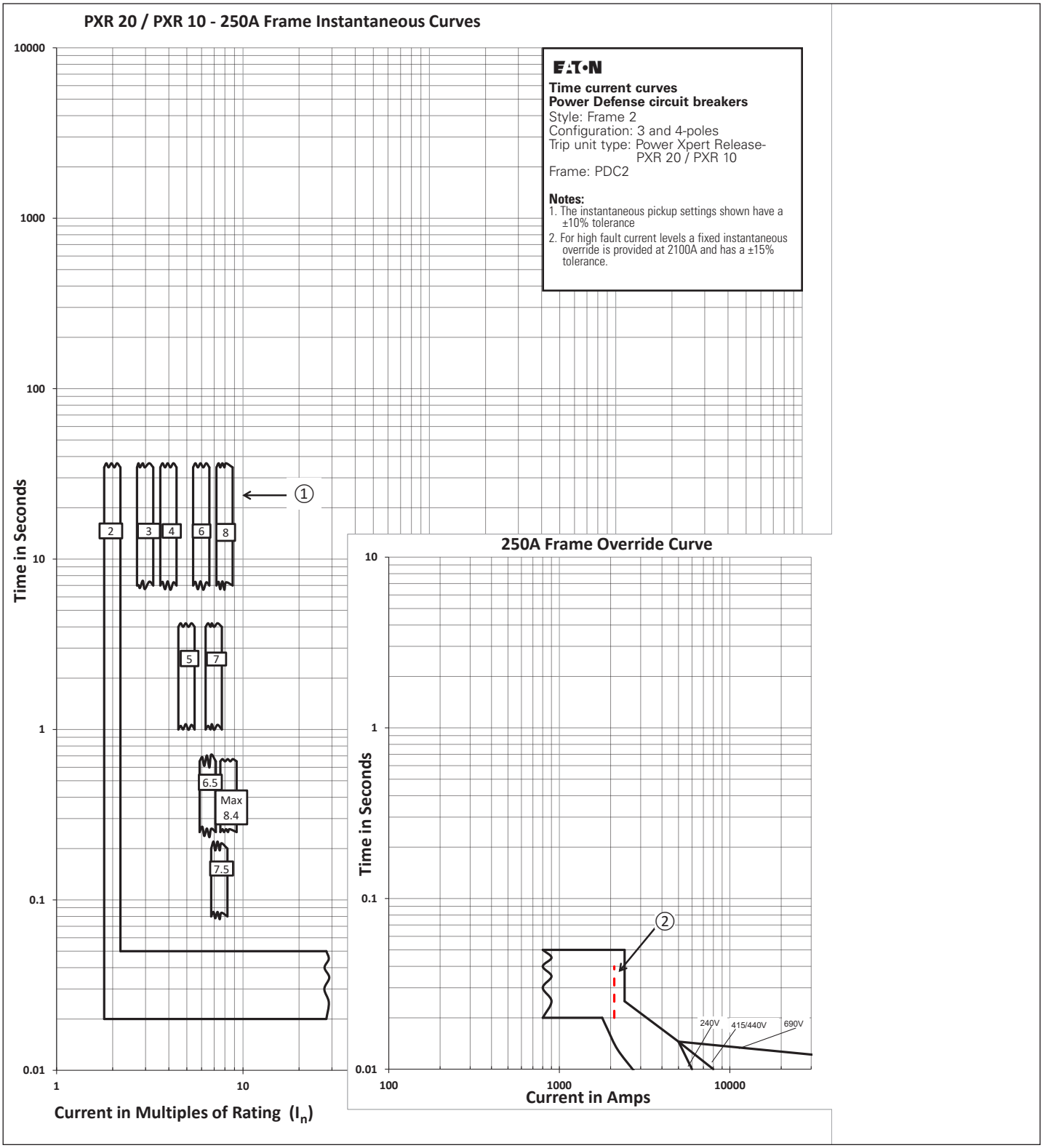


Figure 31. PXR 20 / PXR 10 - instantaneous and override for 250A frame.

April 2022

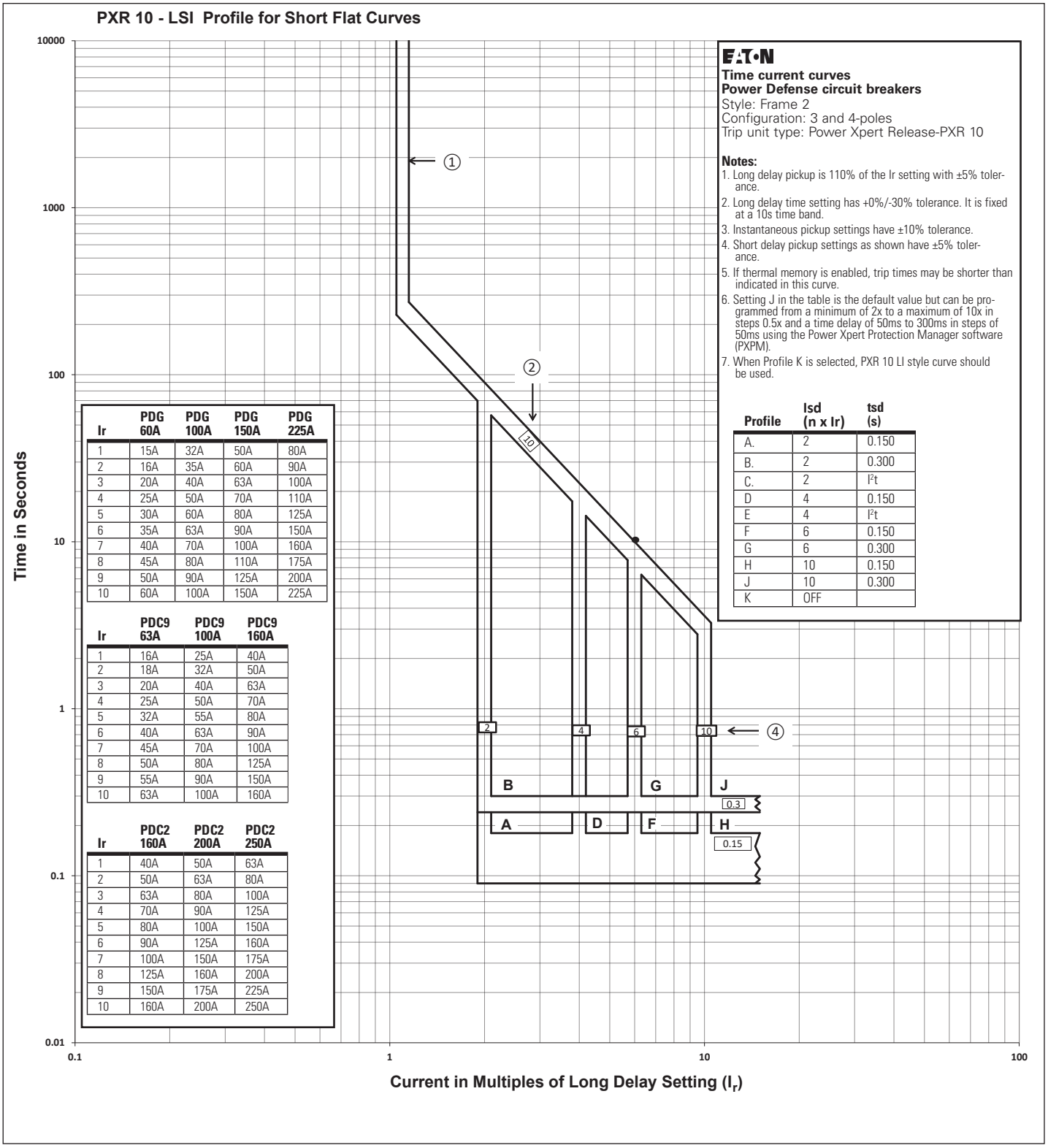


Figure 32. PXR 10 LSI profile for short flat curves.

April 2022

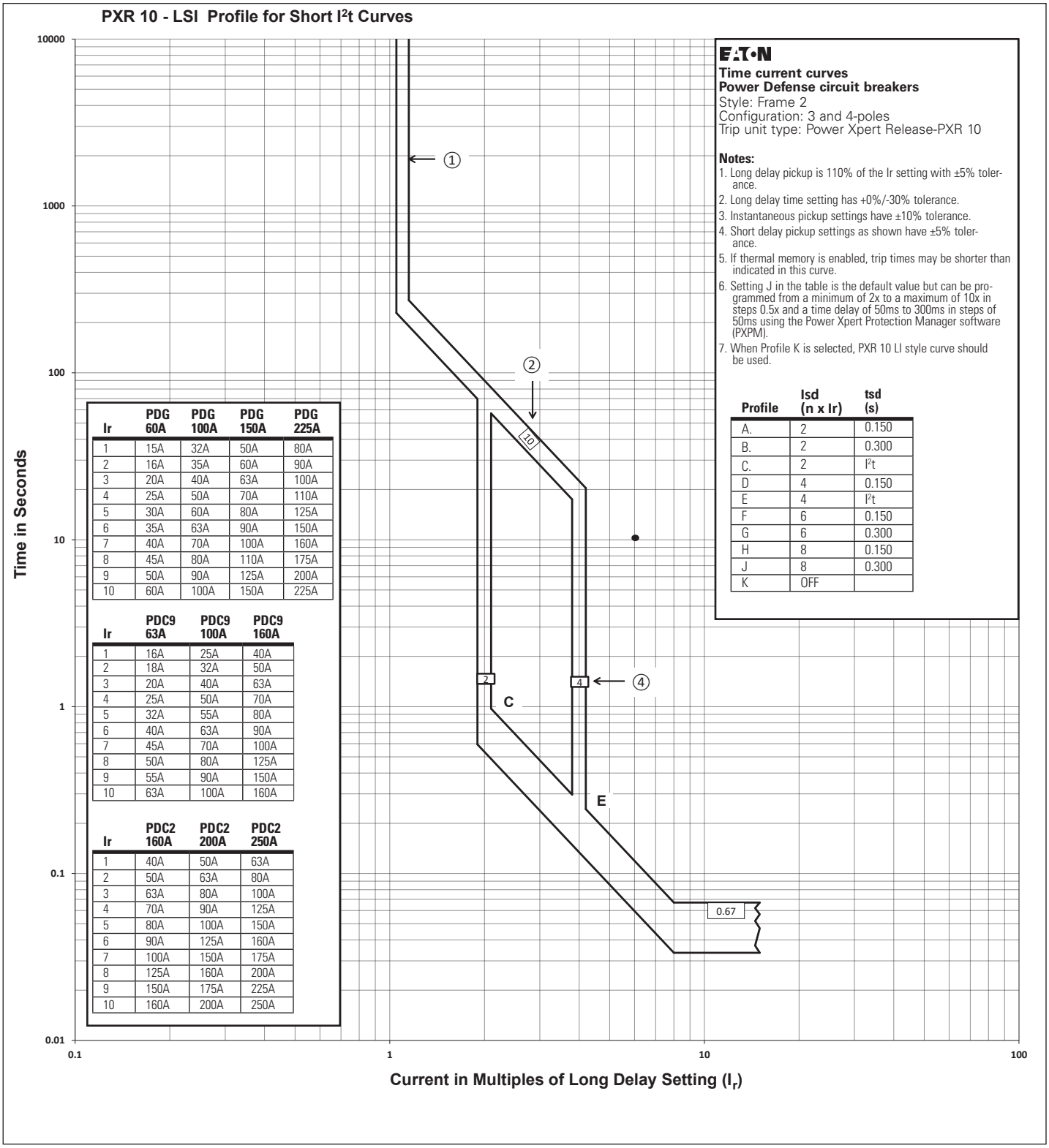


Figure 33. PXR 10 LSI profile for I²t short curves.

April 2022

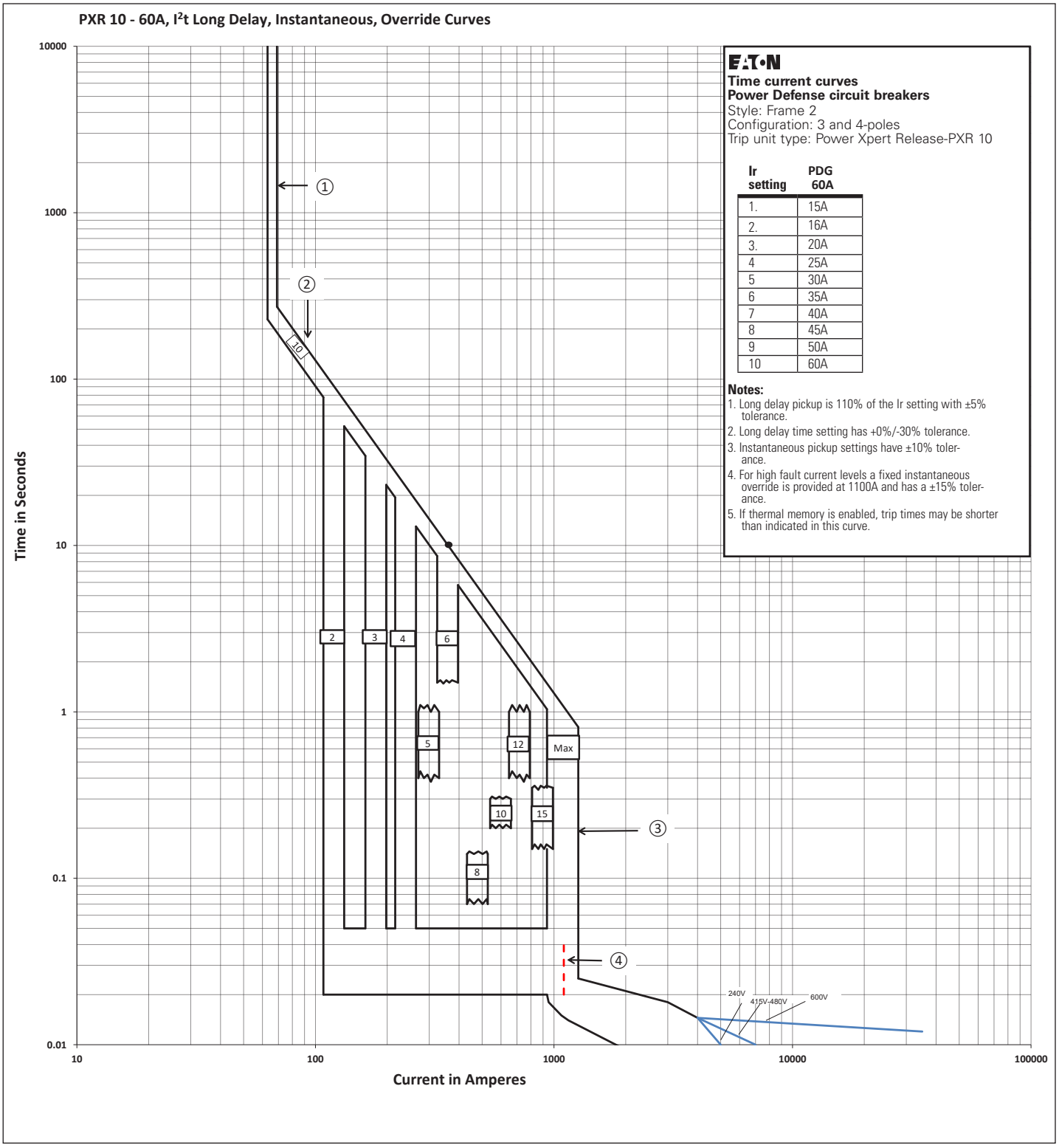


Figure 34. PXR 10 LI style 60A frame.

April 2022

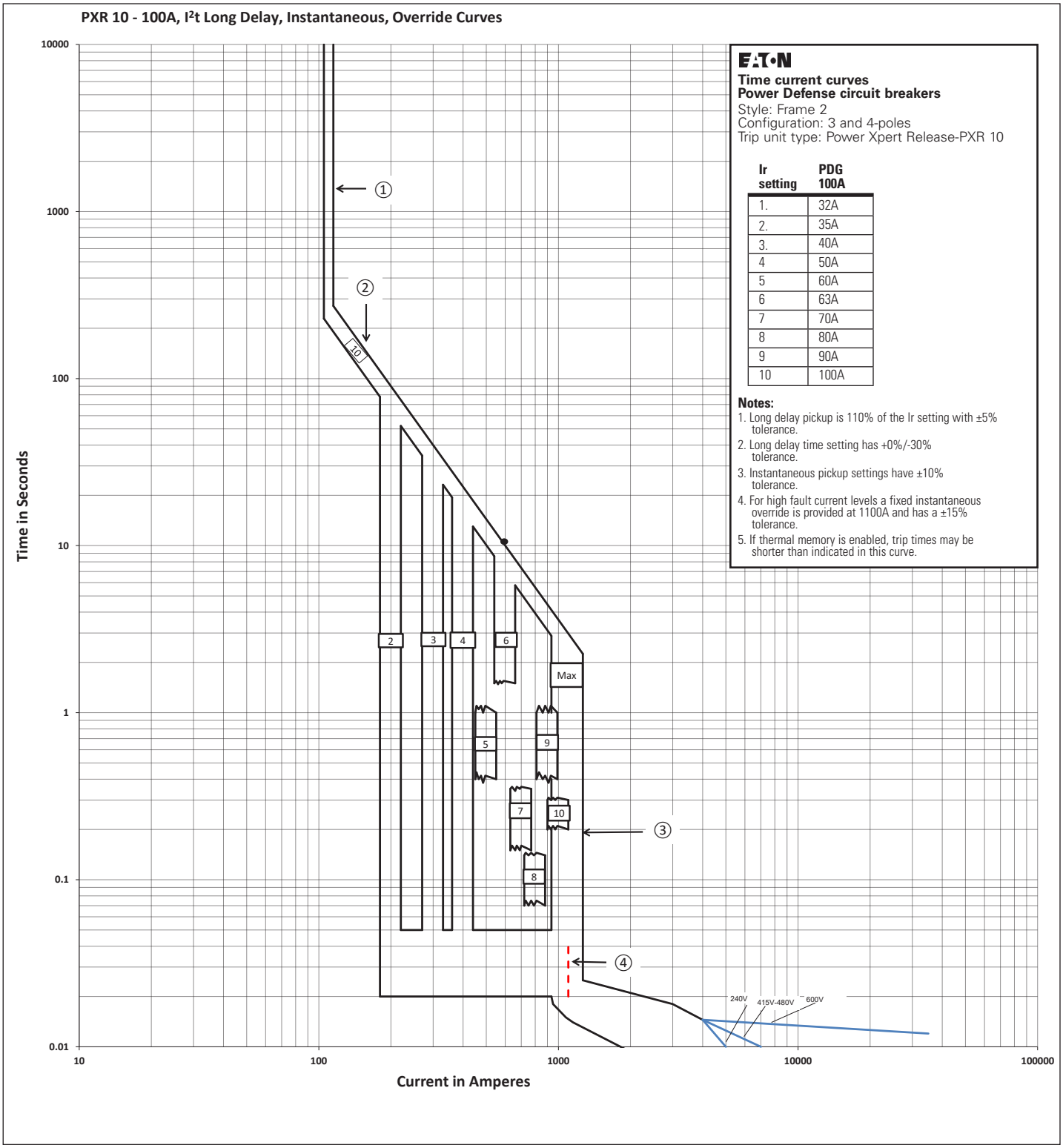


Figure 35. PXR 10 LI style 100A frame.

April 2022

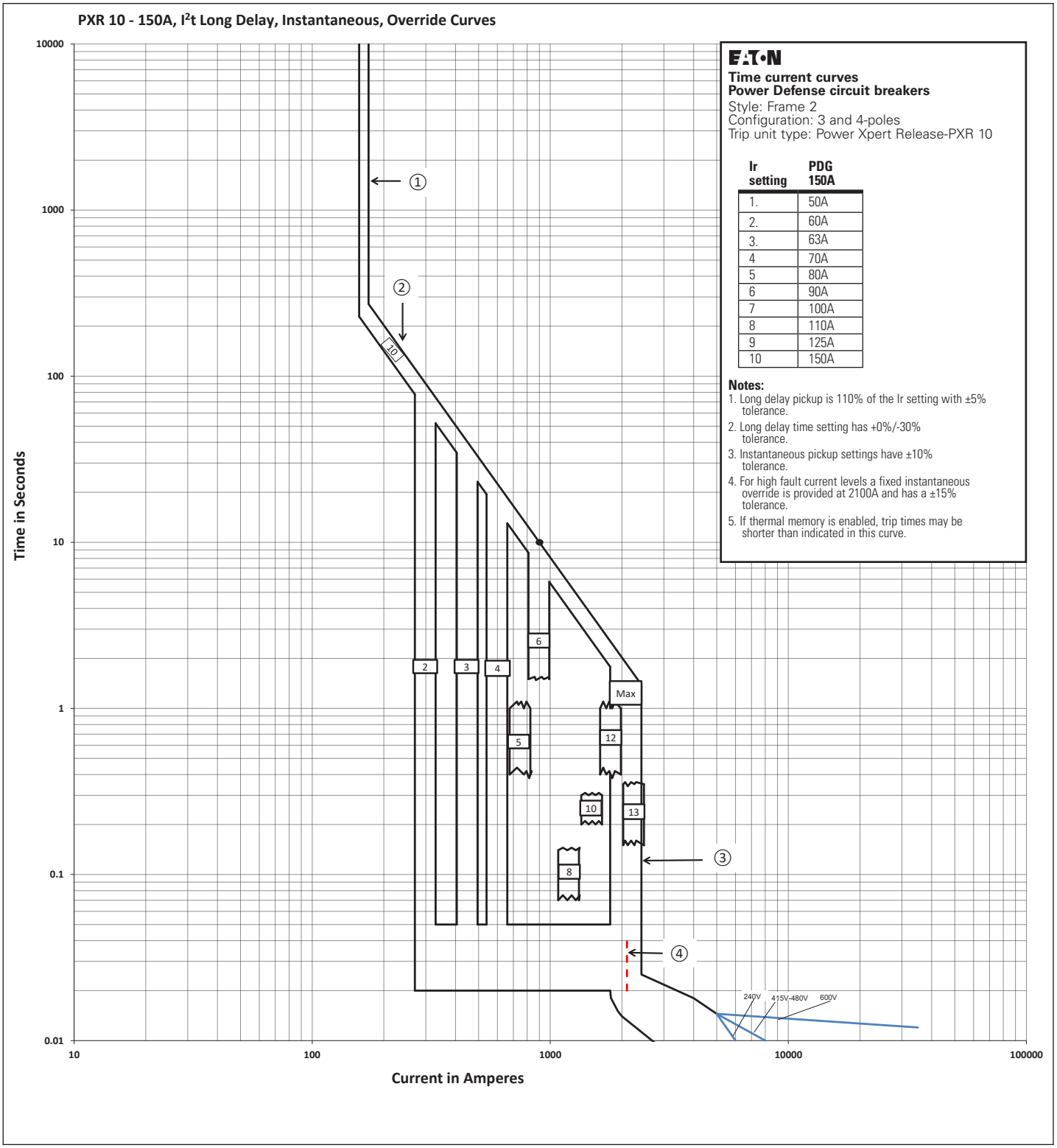


Figure 36. PXR 10 LI style 150A frame.

April 2022

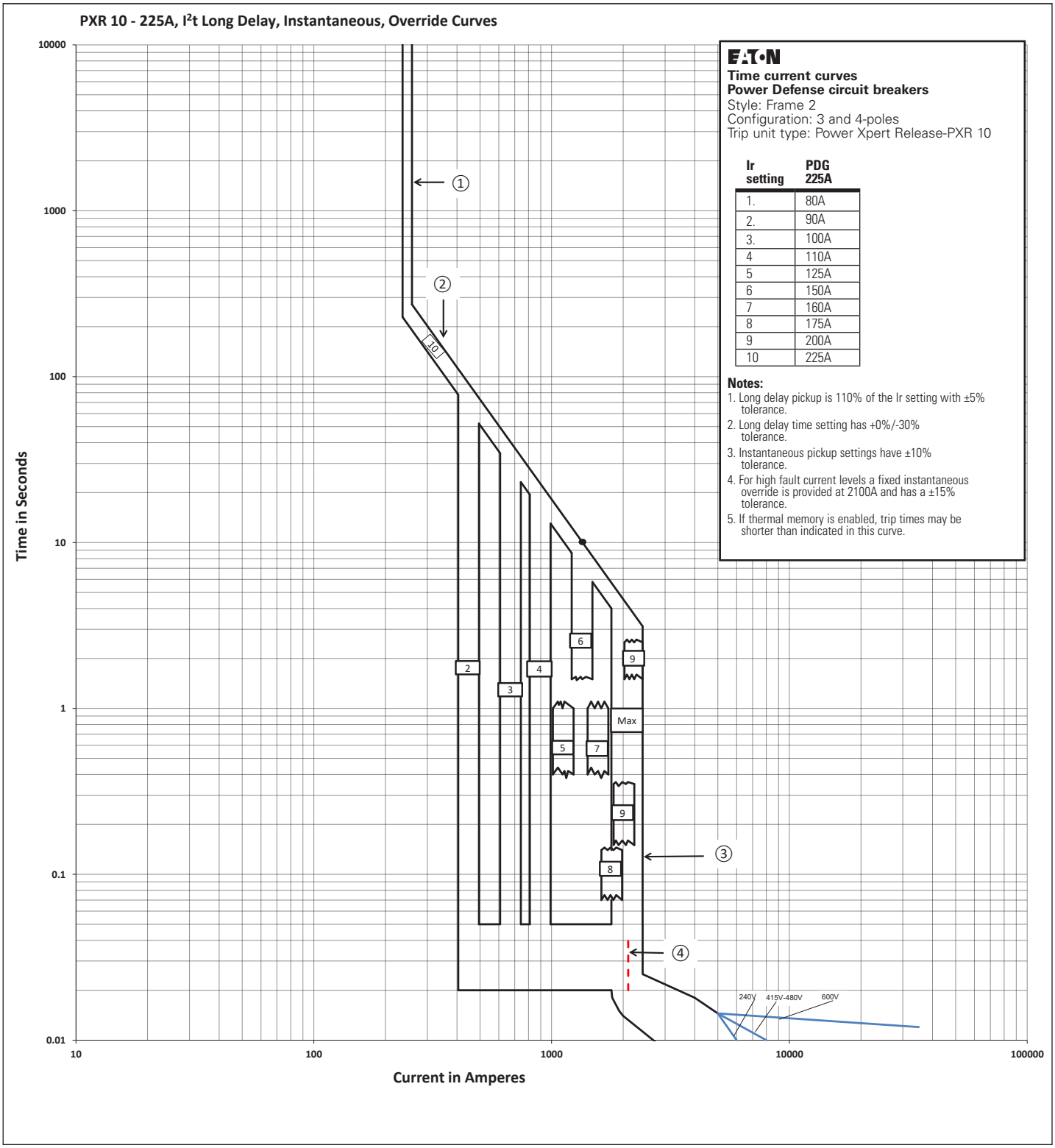


Figure 37. PXR 10 LI style 225A frame.

April 2022

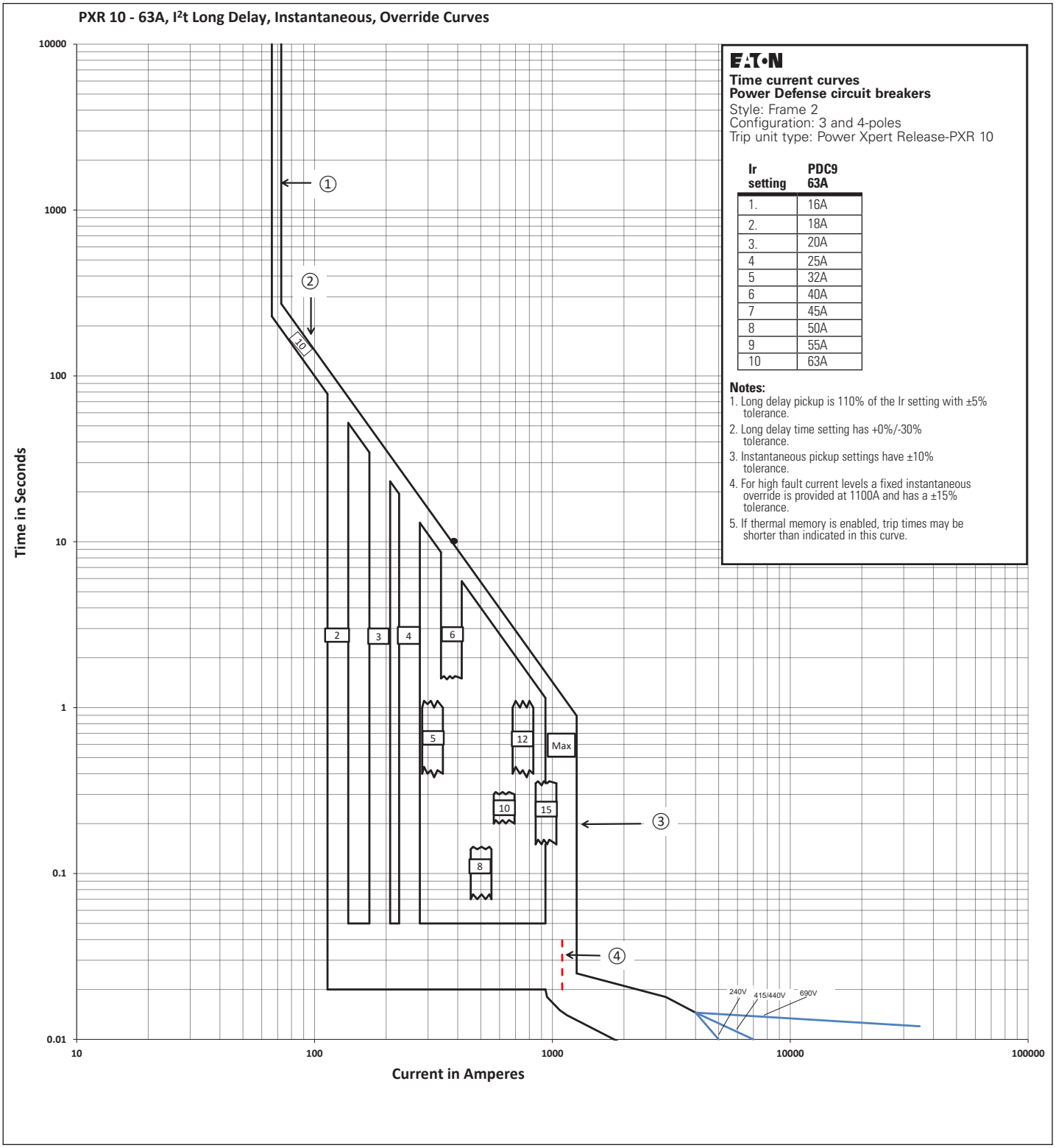


Figure 38. PXR 10 LI style 63A frame.

April 2022

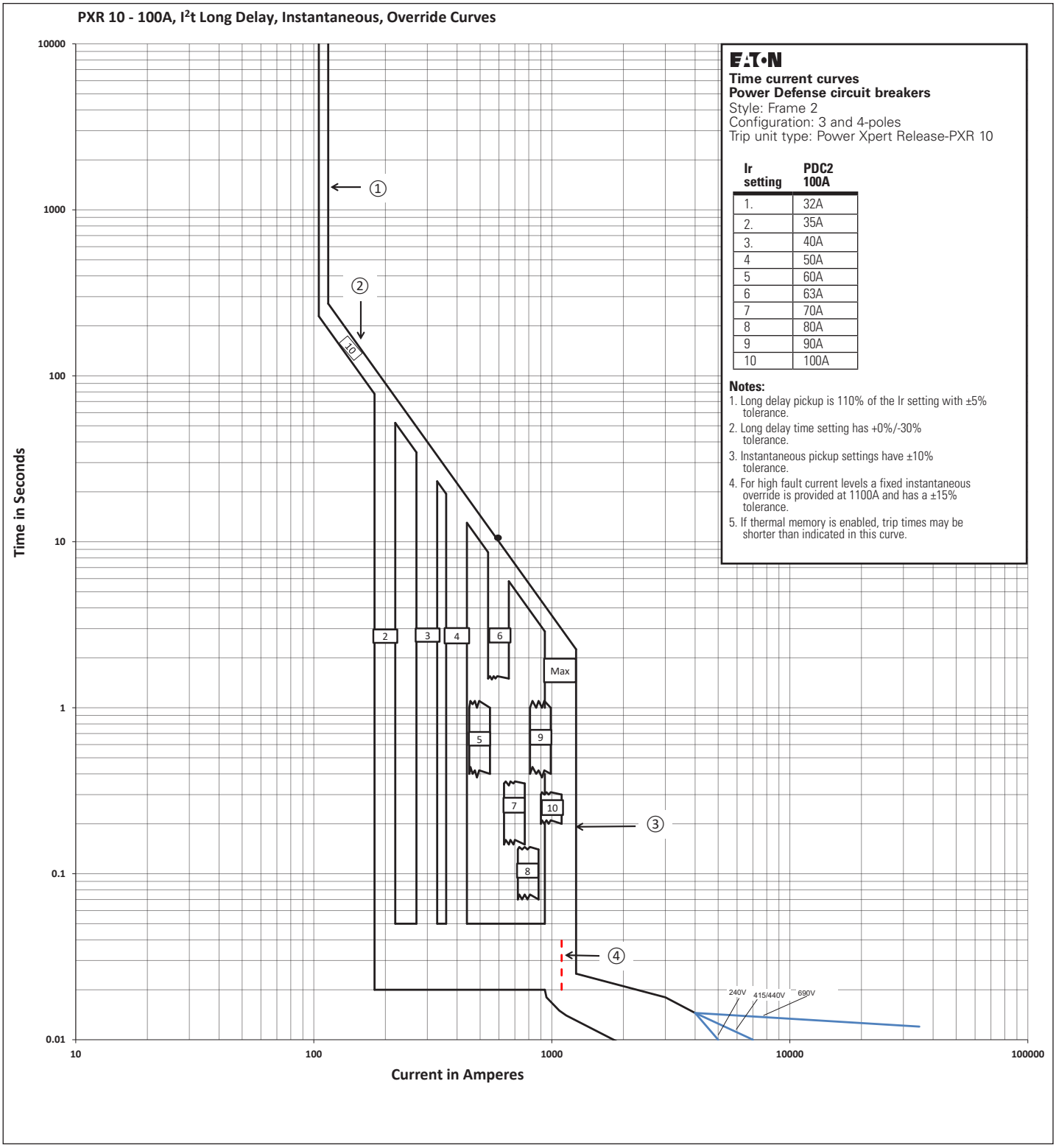


Figure 39. PXR 10 LI style 100A frame.

April 2022

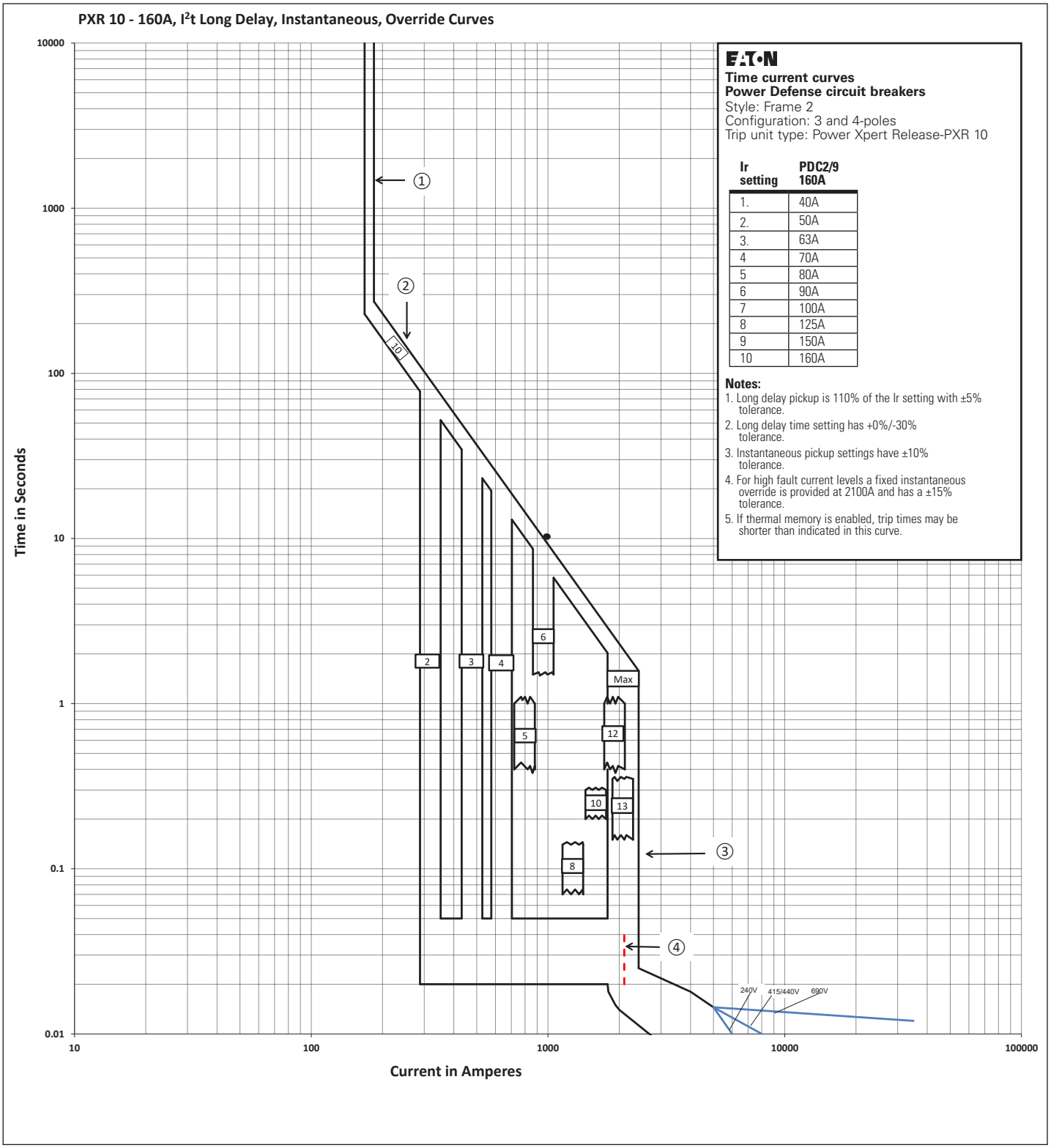


Figure 40. PXR 10 LI style 160A frame.

April 2022

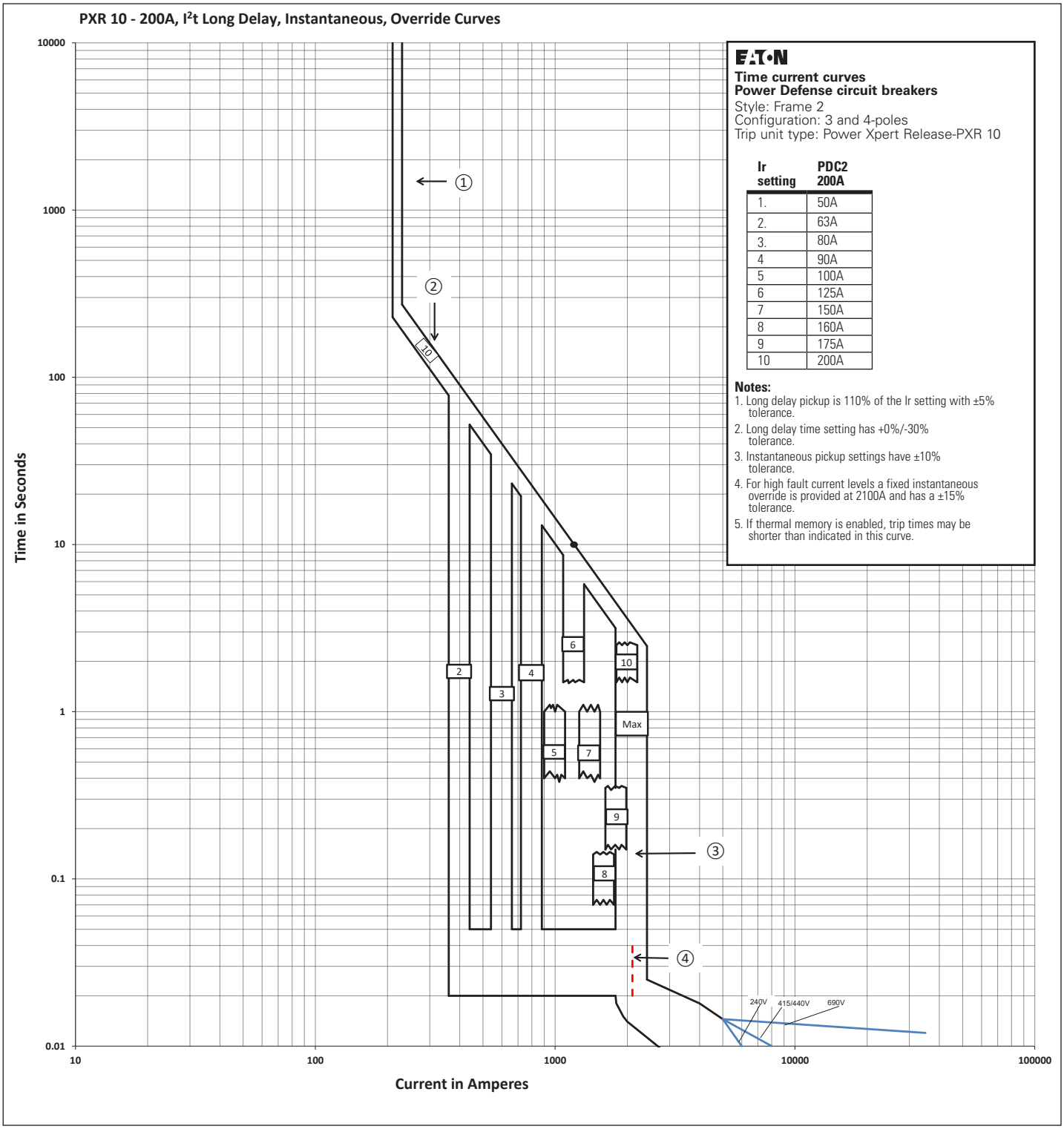


Figure 41. PXR 10 LI style 200A frame.

April 2022

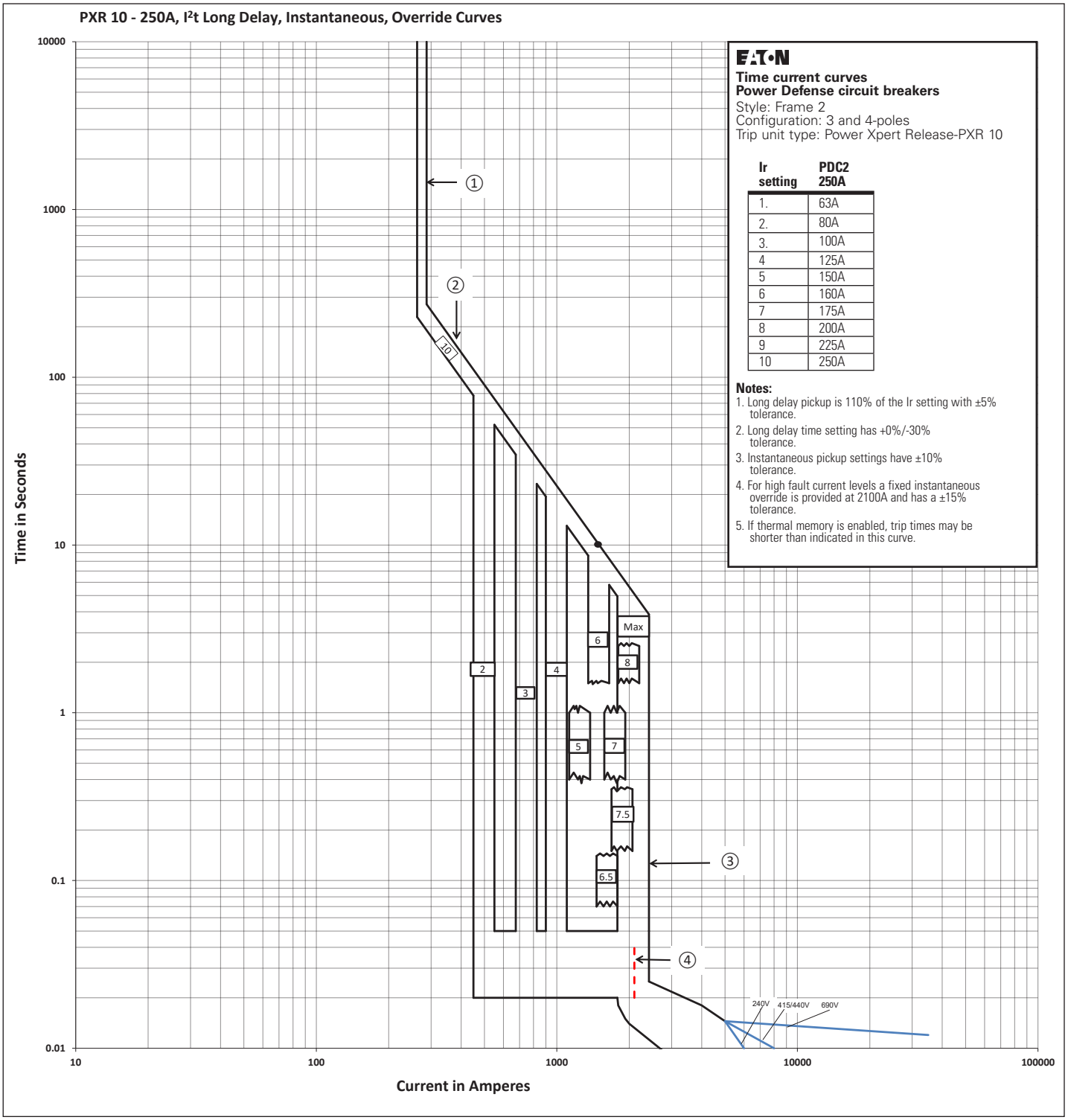


Figure 42. PXR 10 LI style 250A frame.

April 2022

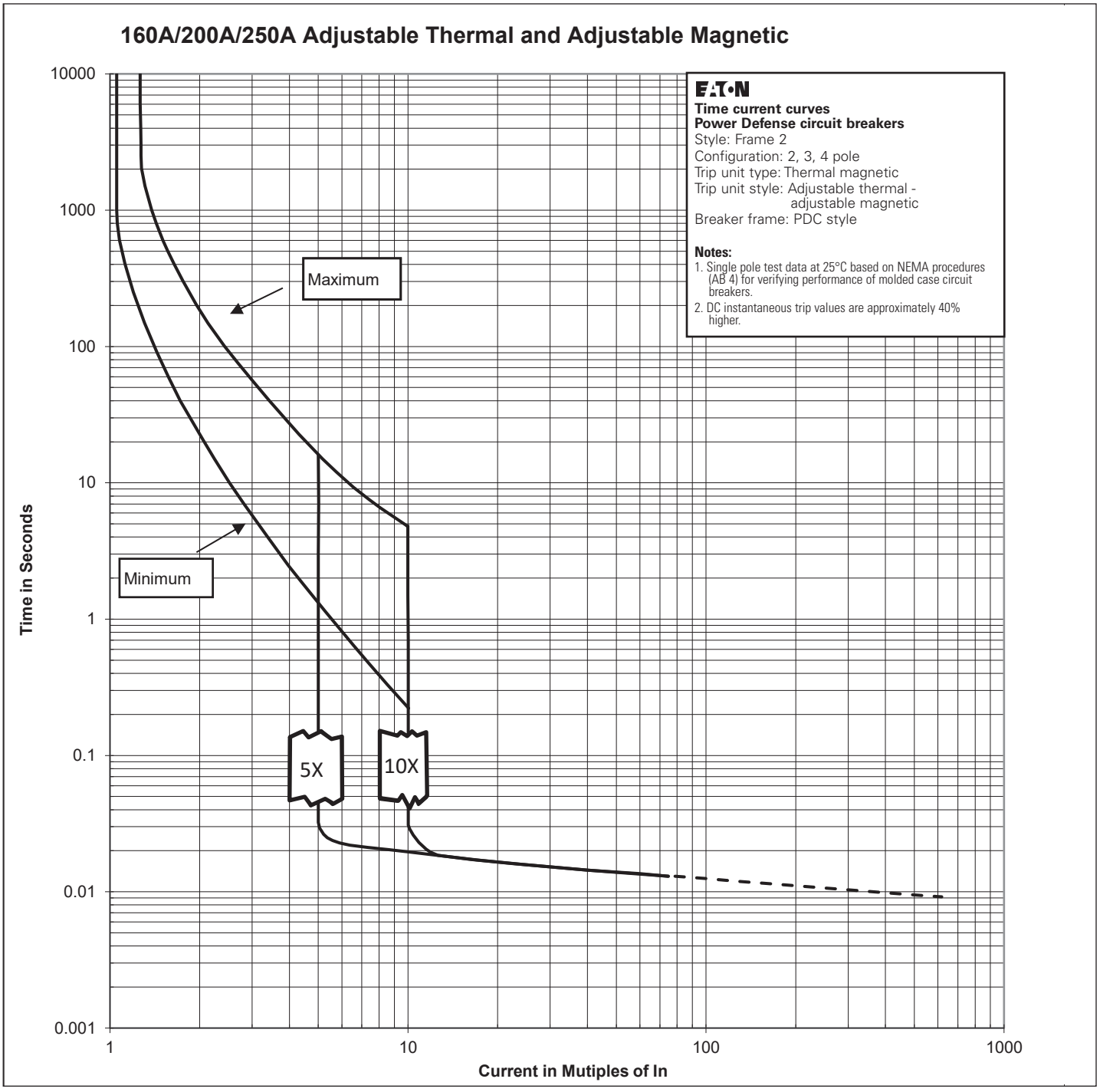


Figure 78. 160A/200A/250A adjustable thermal and adjustable magnetic. **April 2022**

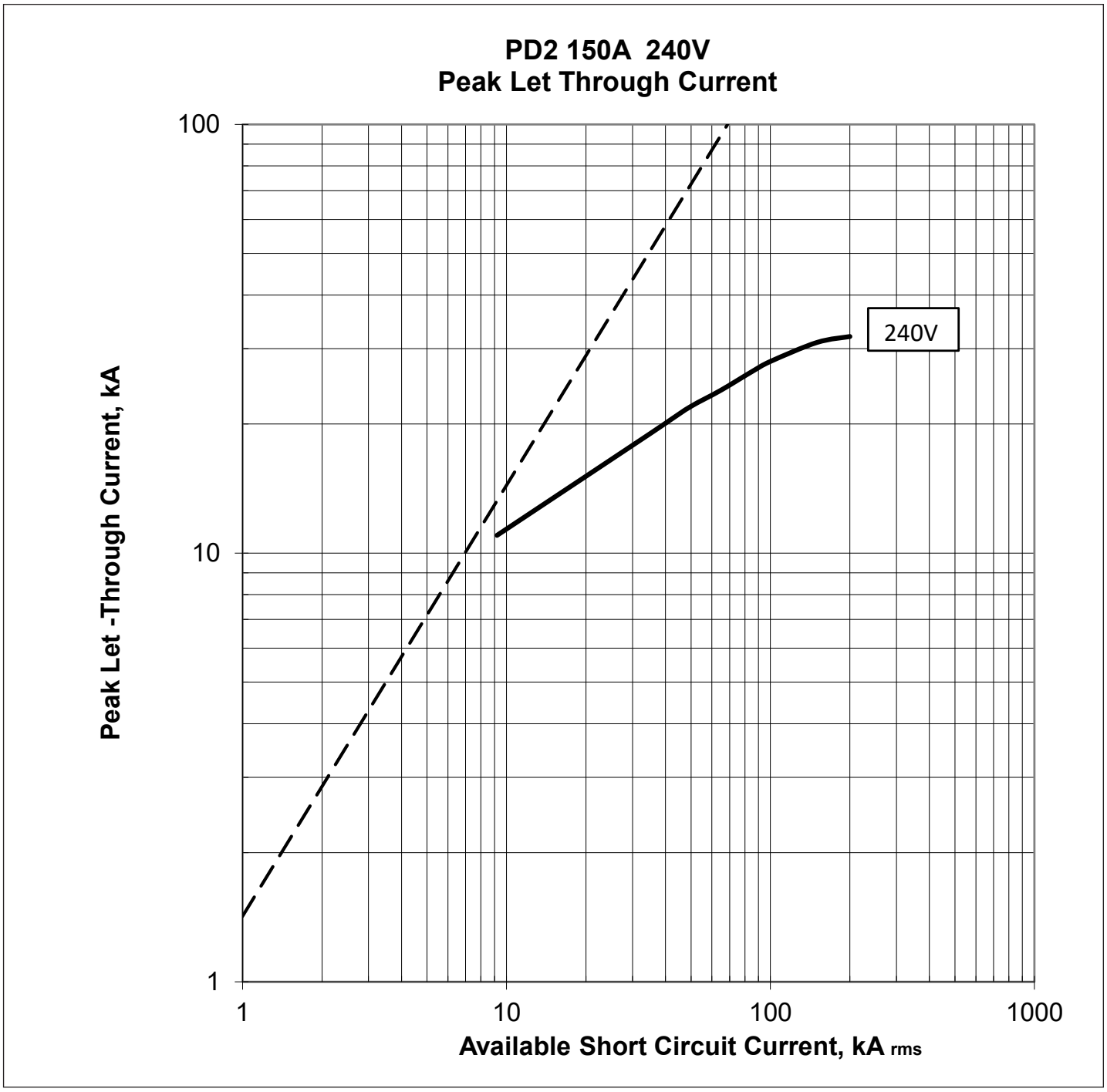


Figure 79. 240V let-through current 150A.

April 2022.

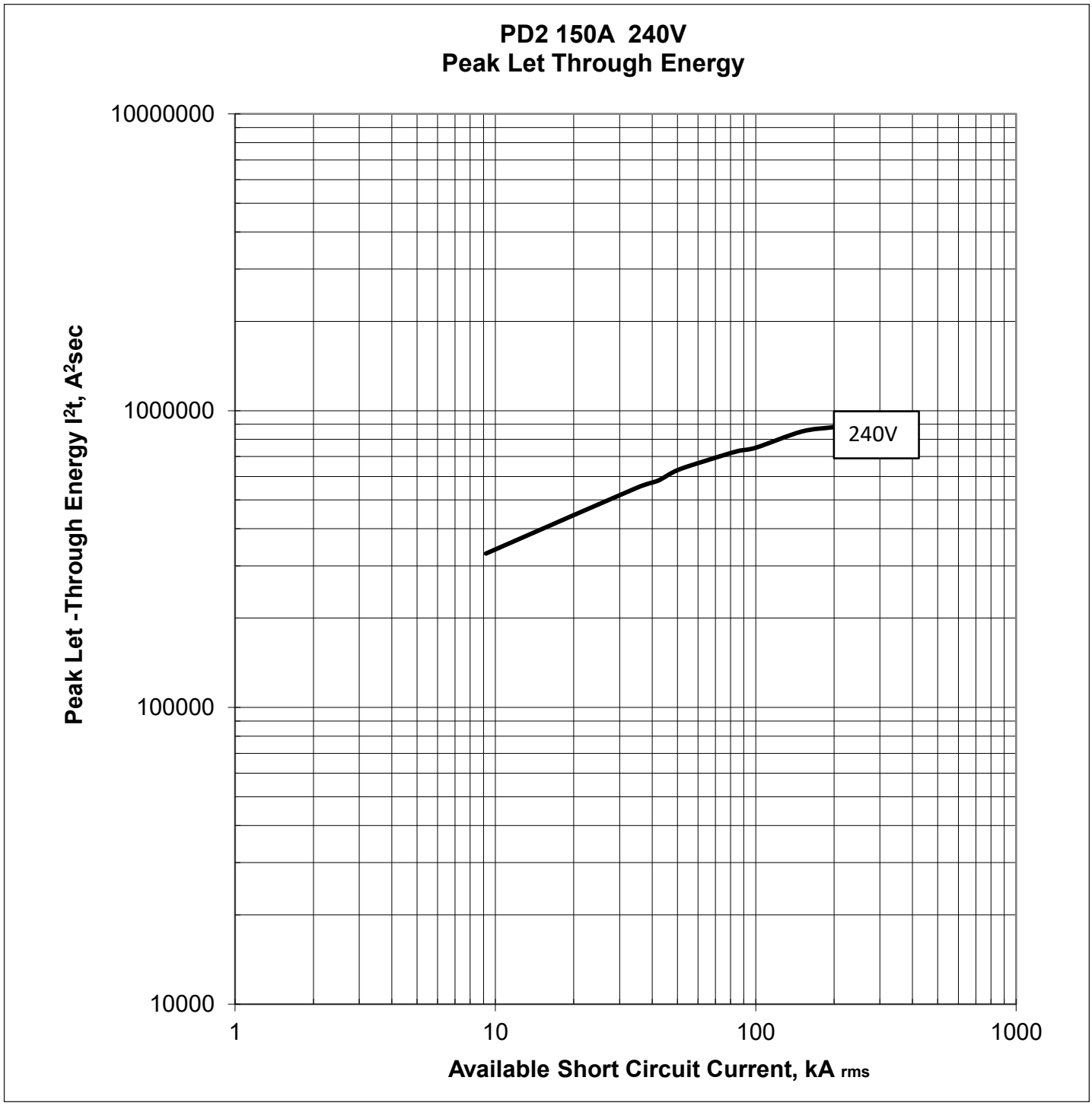


Figure 80. 240V let-through energy 150A. **April 2022.**

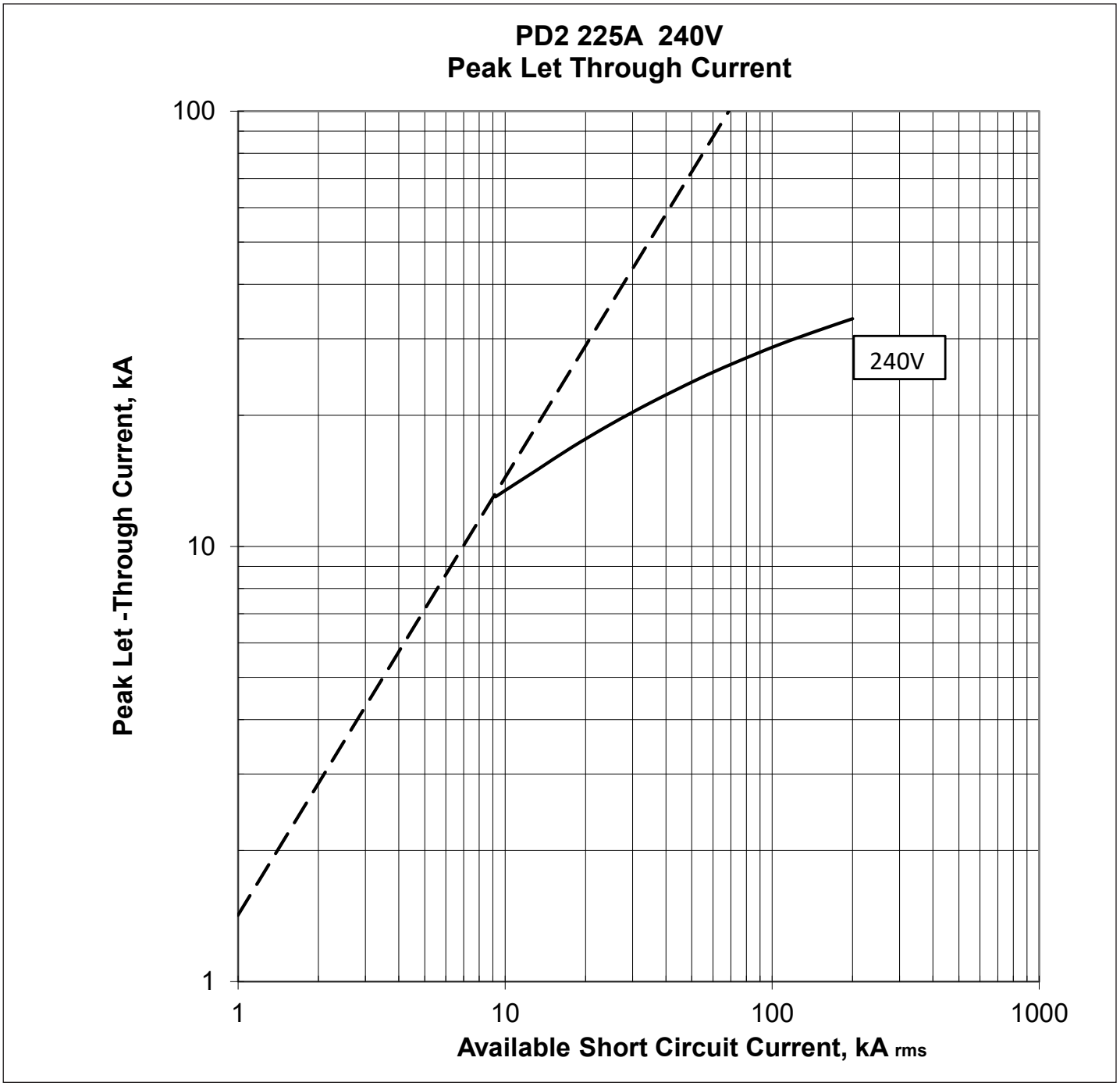


Figure 81. 240V let-through current 225A.

April 2022

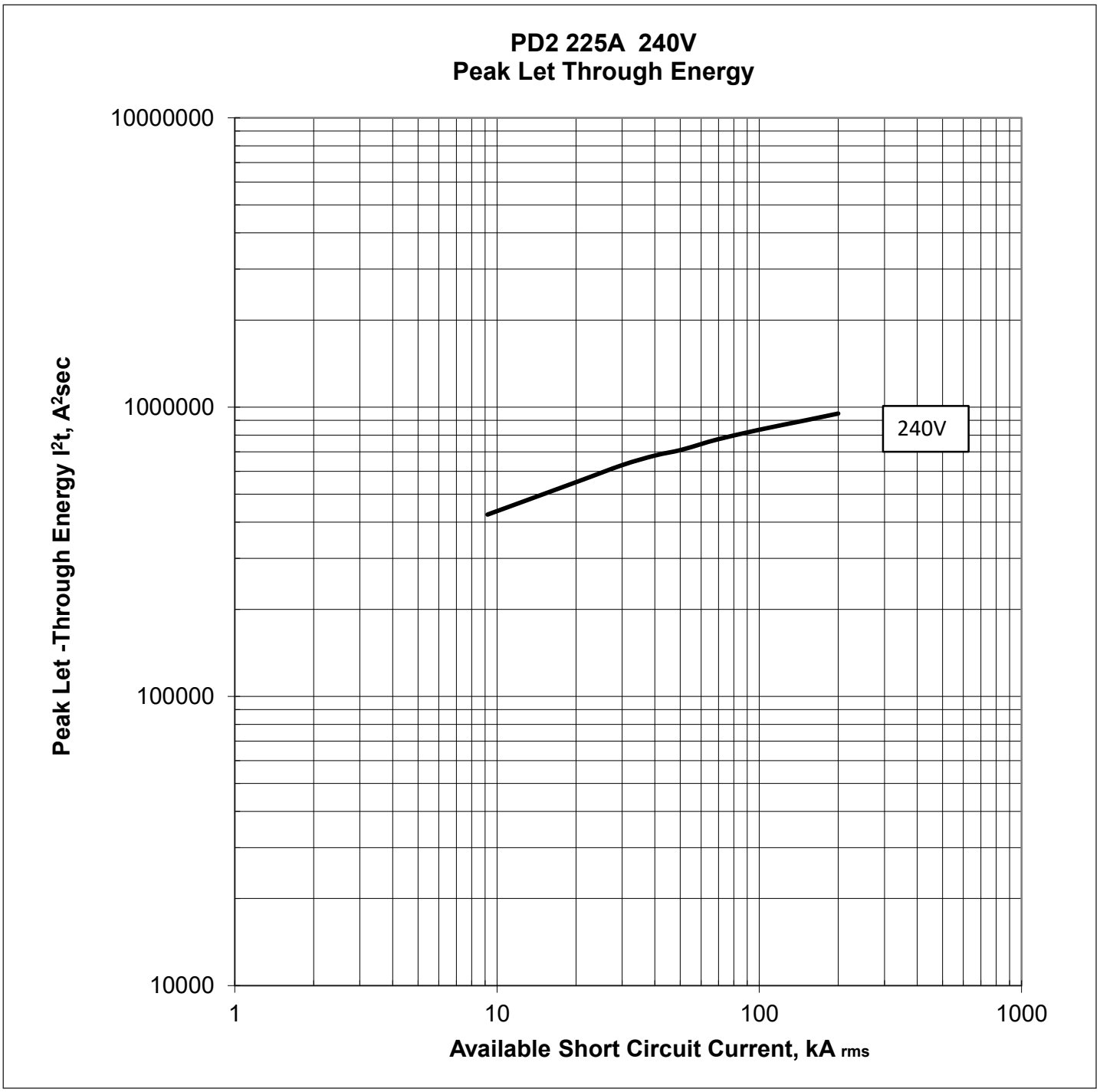


Figure 82. 240V let-through energy 225A.

April 2022

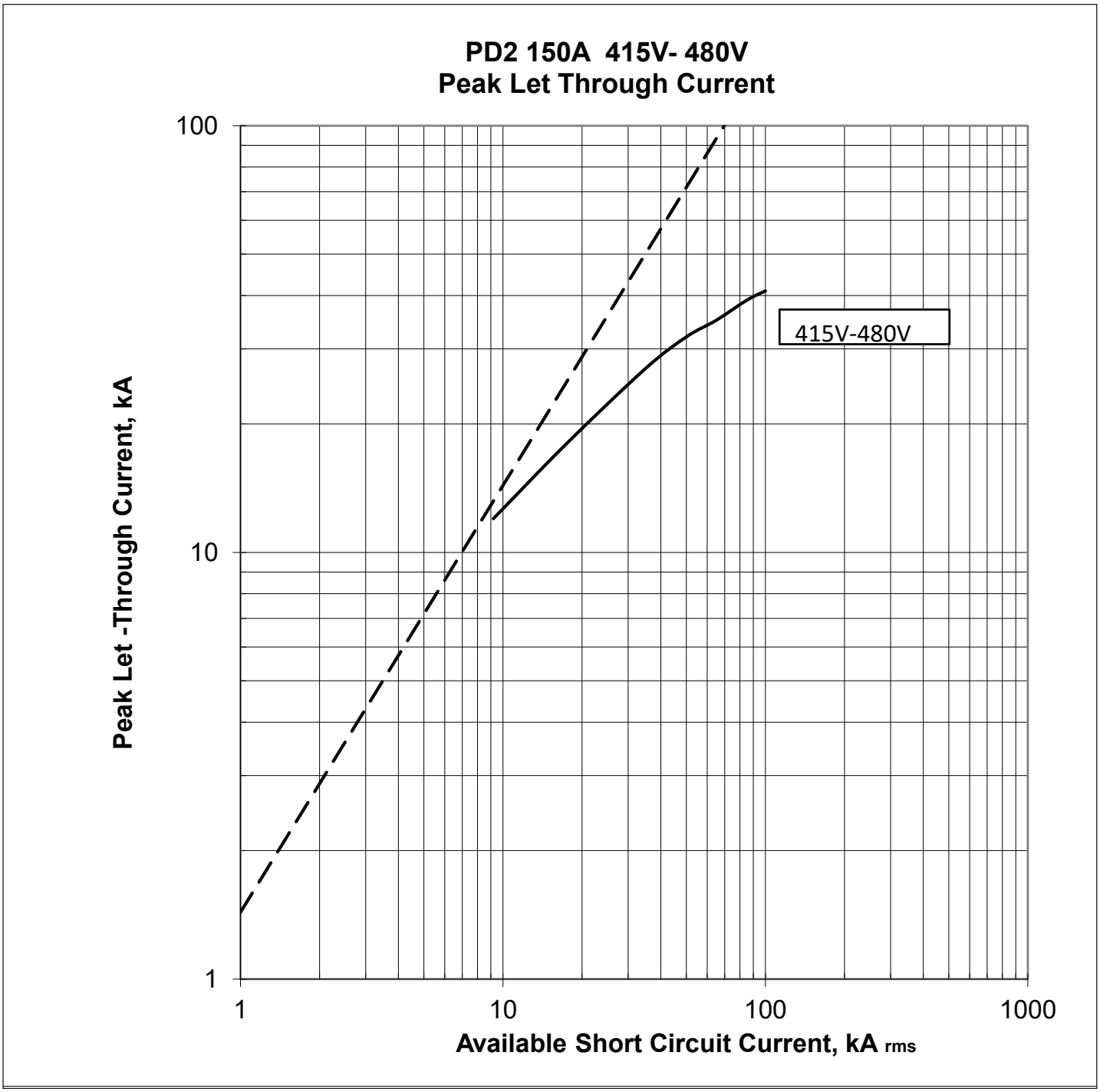


Figure 83. 415V-480V let through current 150A.

April 2022

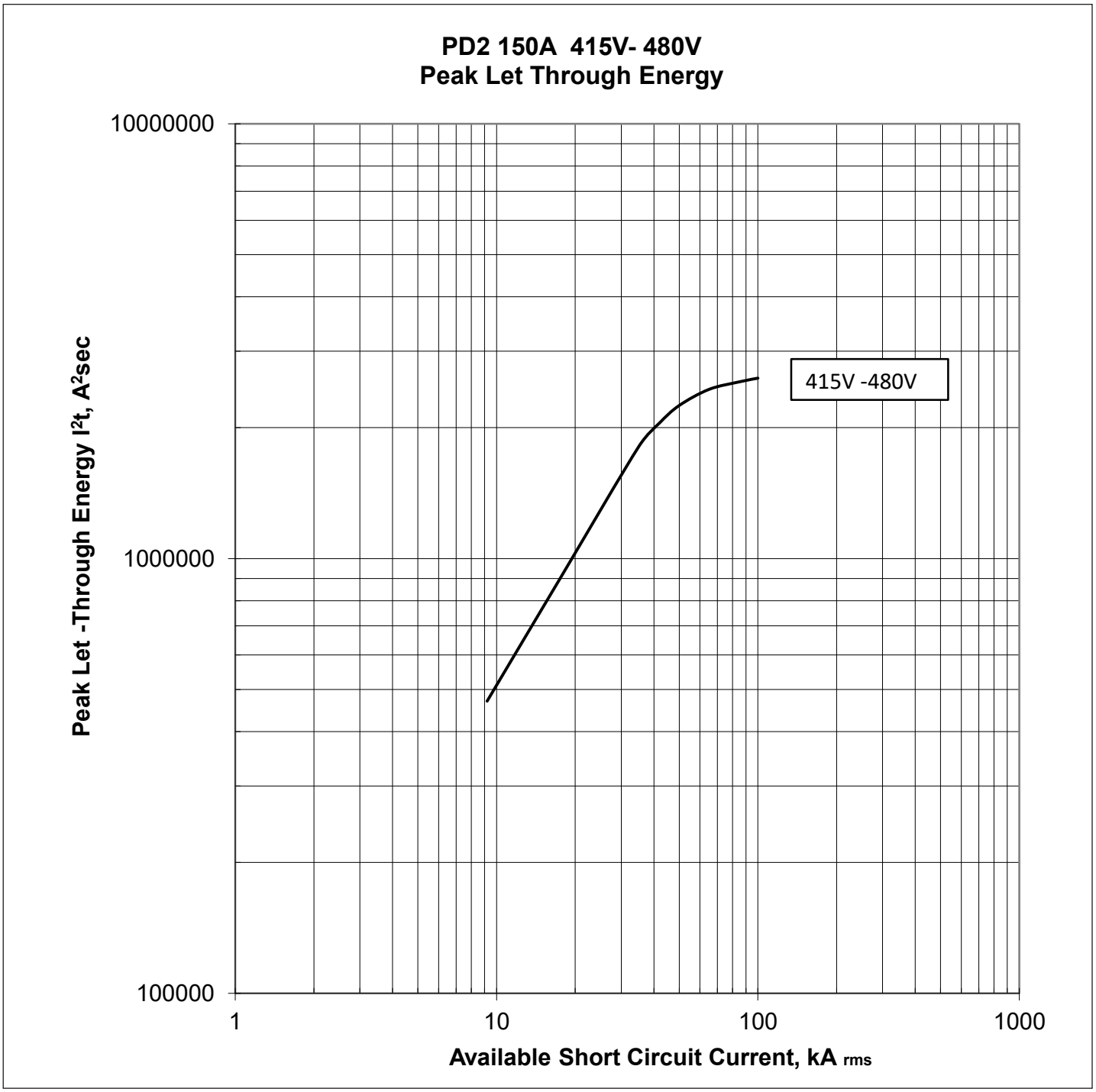


Figure 84. 415V-480V let through energy 150A.

April 2022

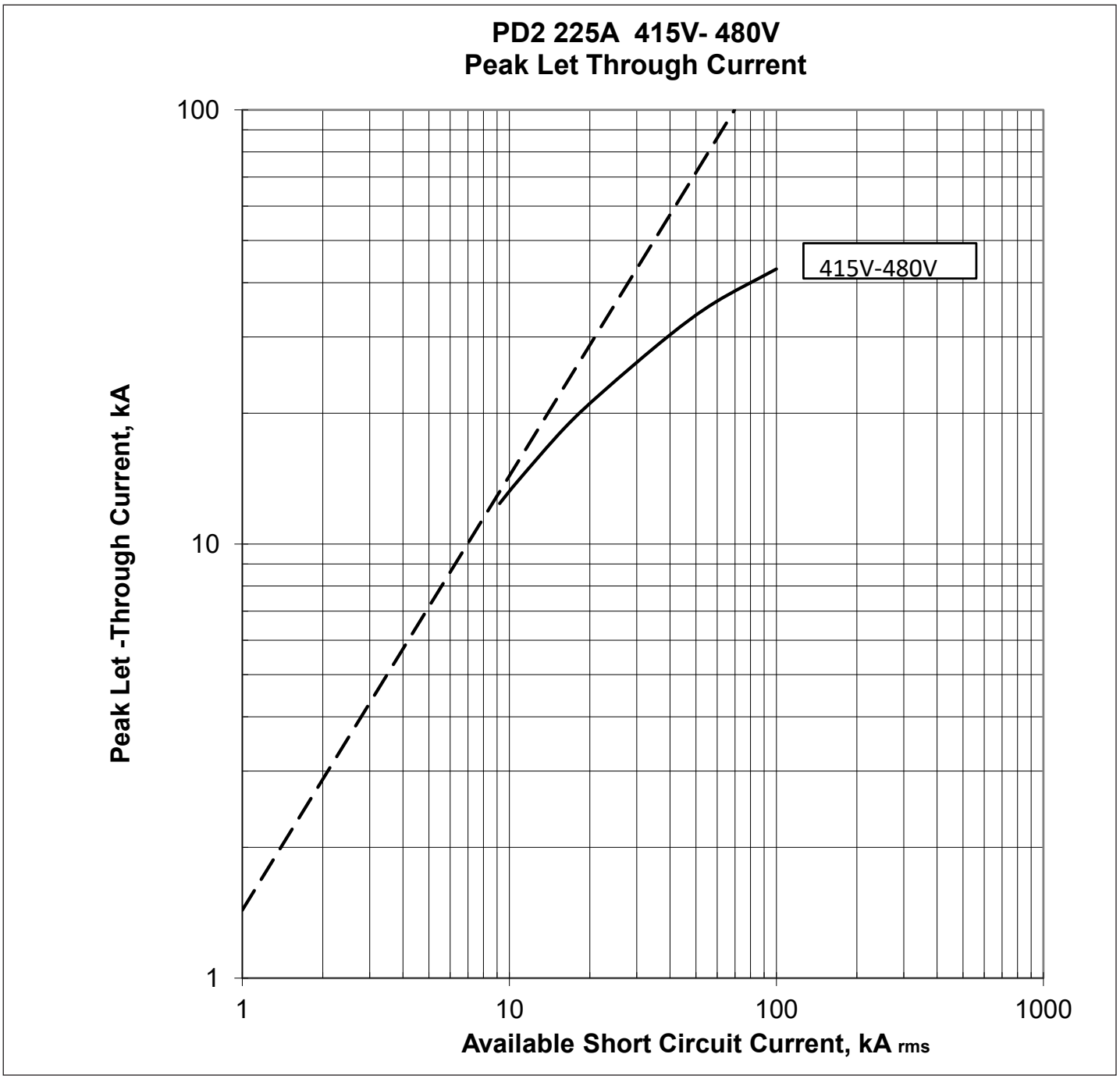


Figure 85. 415V-480V let-through current 225A.

April 2022

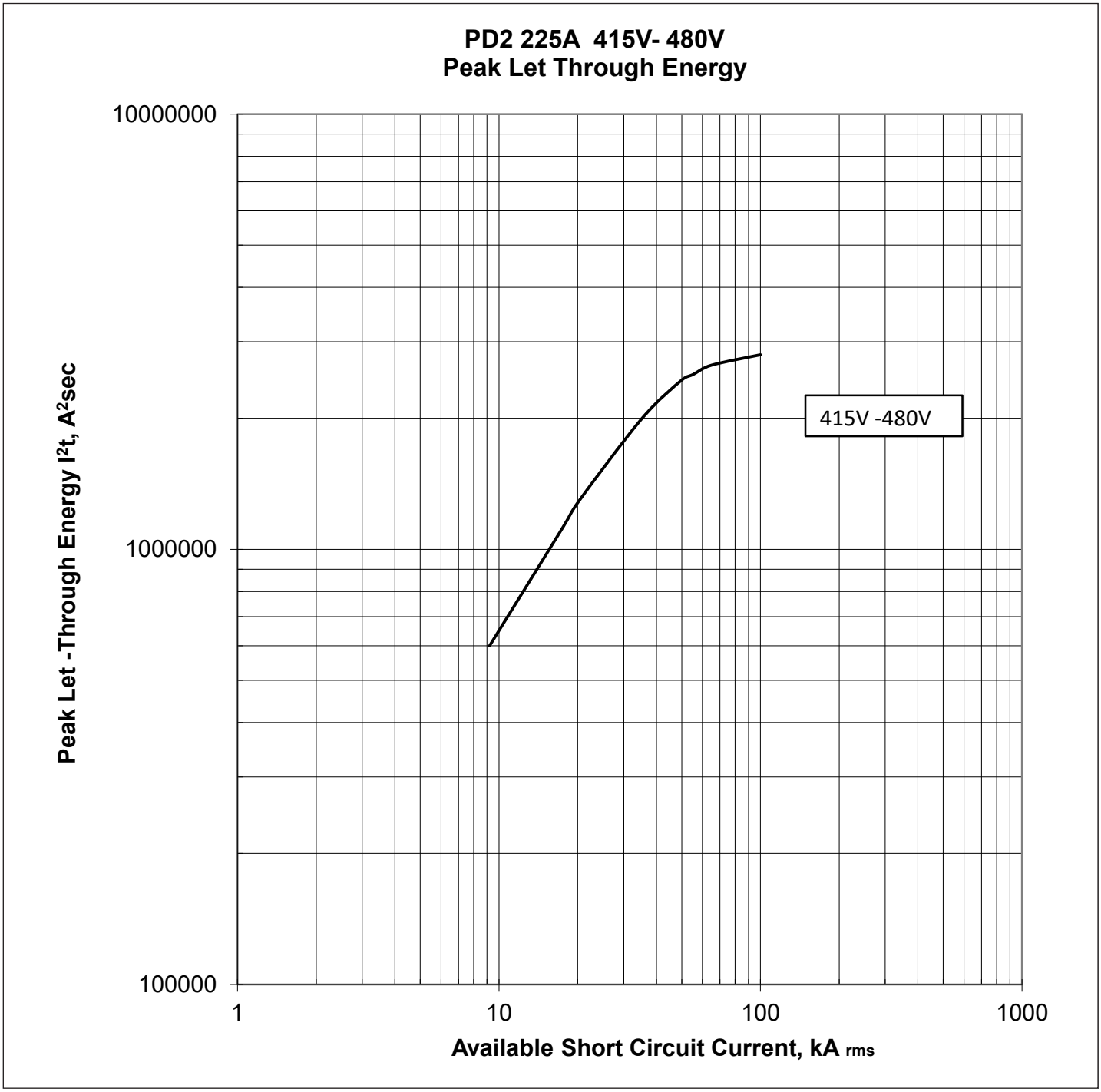


Figure 86. 415V-480V let through energy 225A.

April 2022

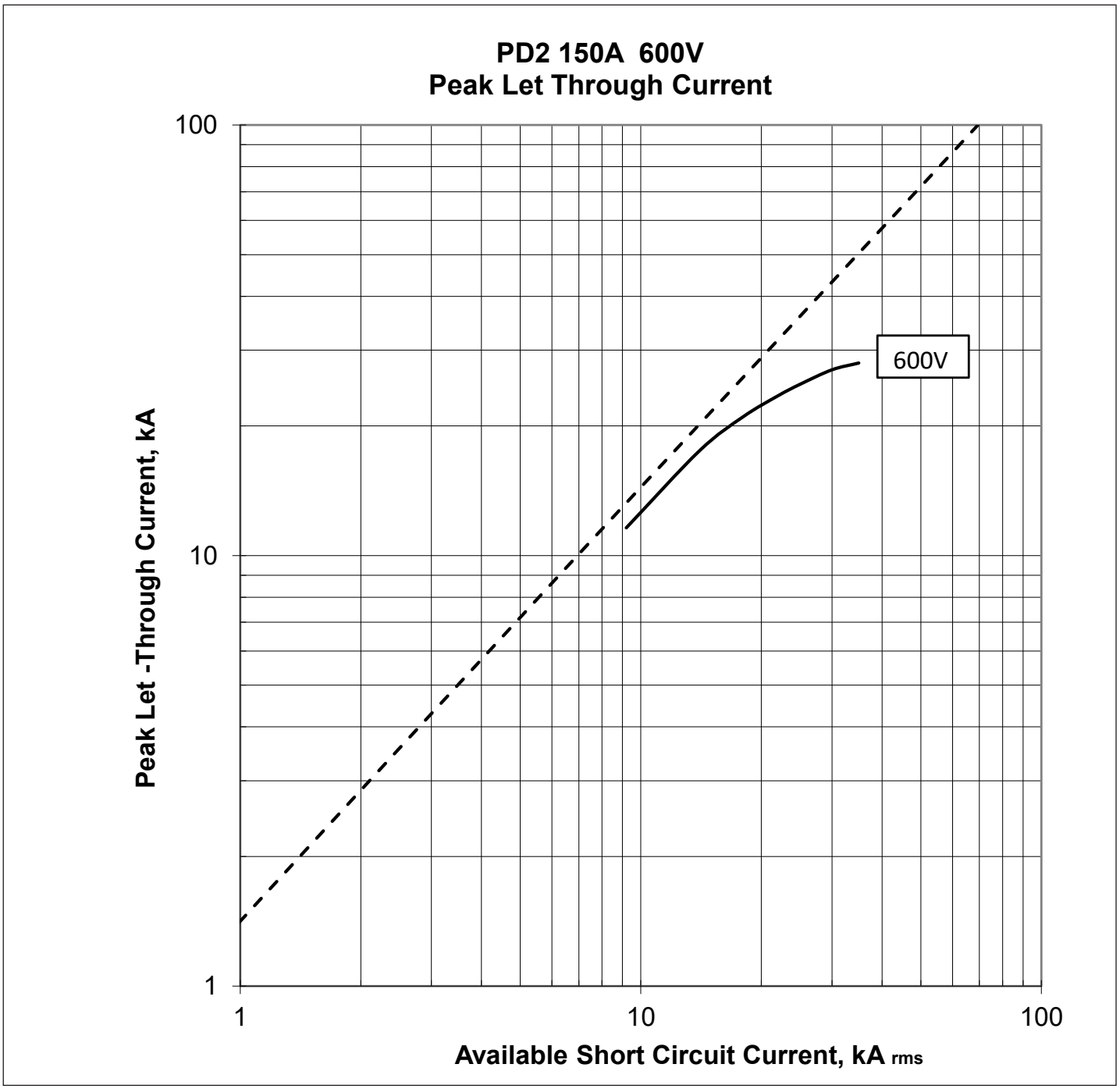


Figure 87. 600V let-through current 150A.

April 2022

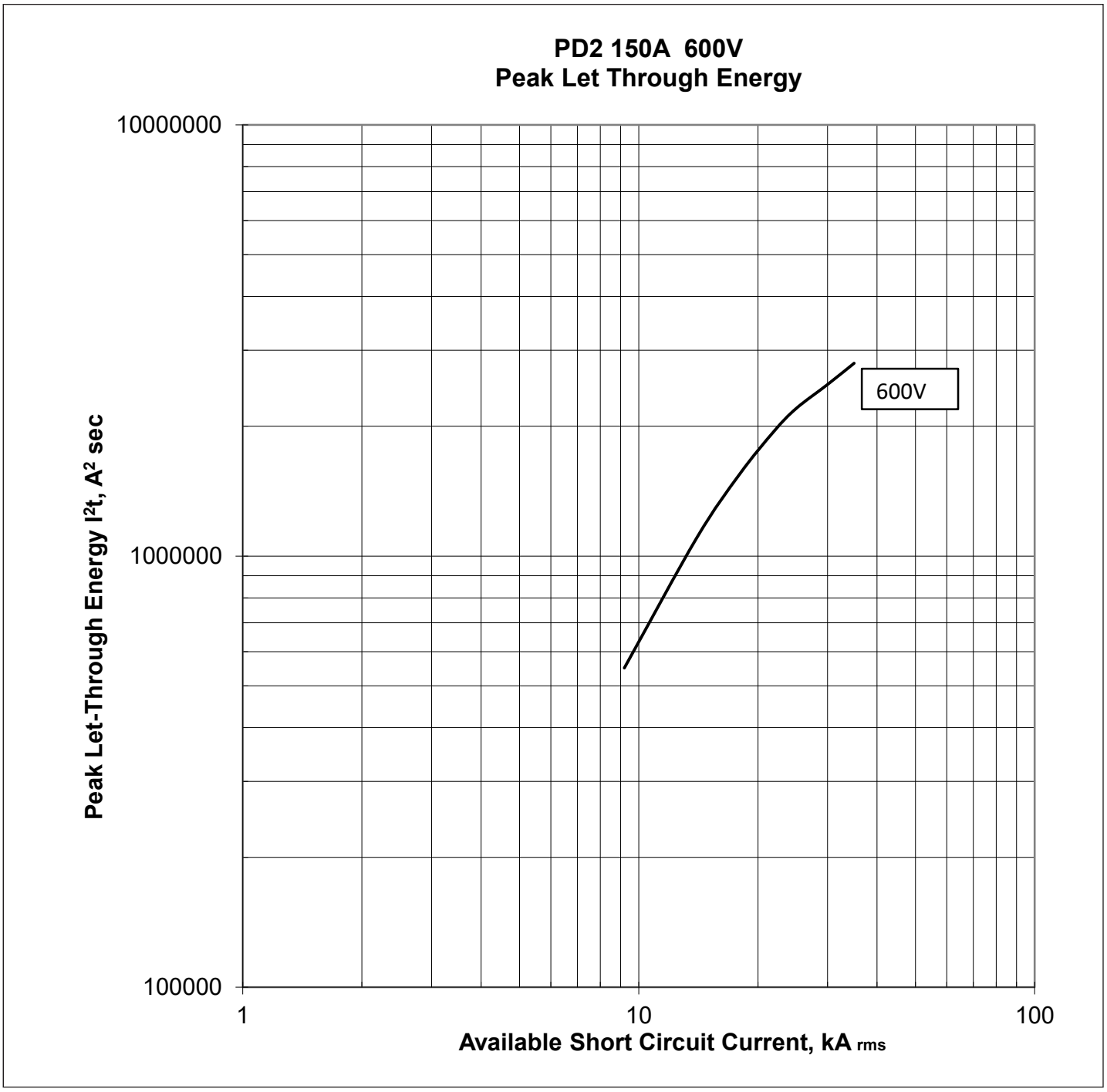


Figure 88. 600V let-through energy 150A.

April 2022

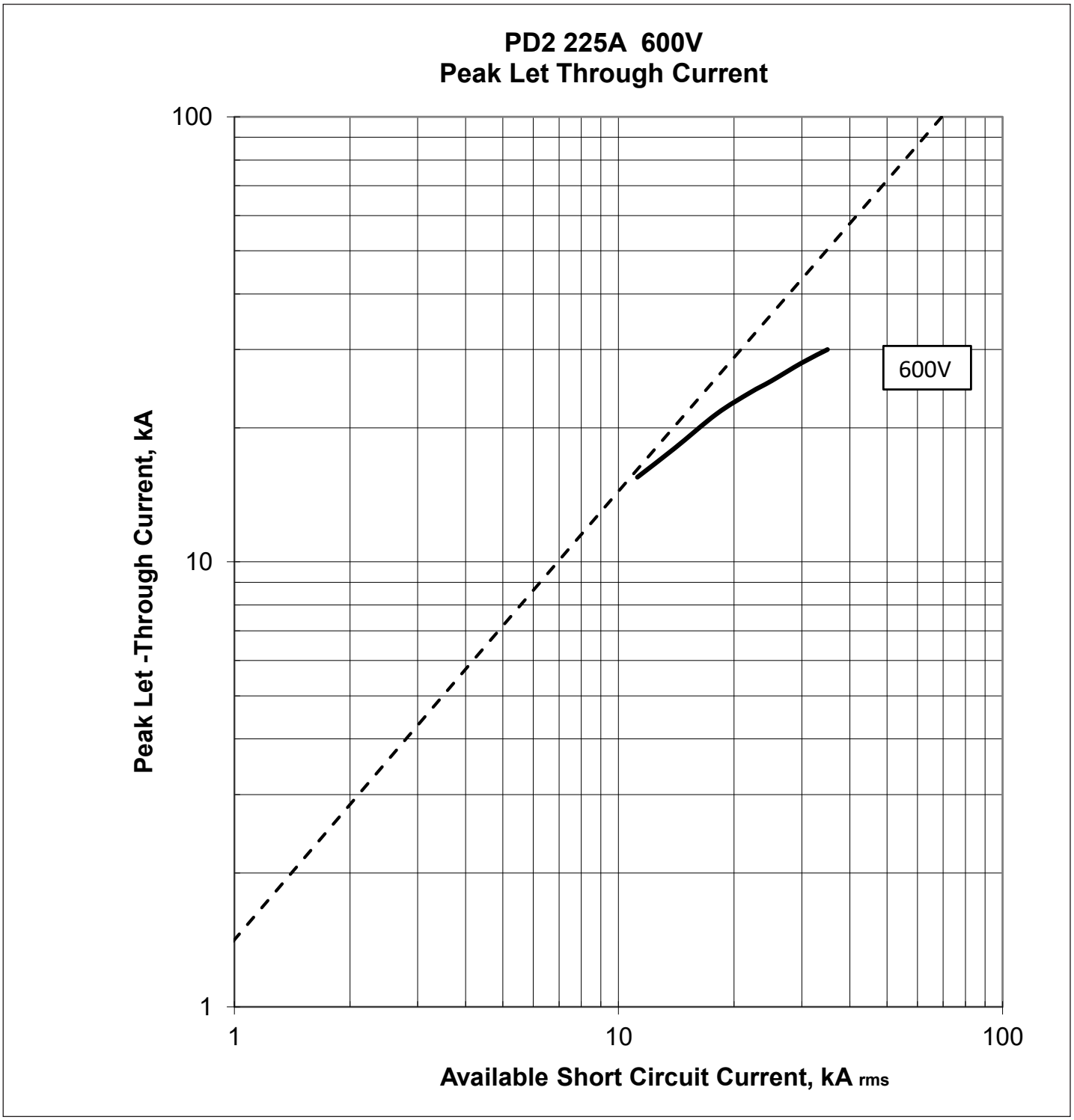


Figure 89. 600V let-through current 225A.

April 2022

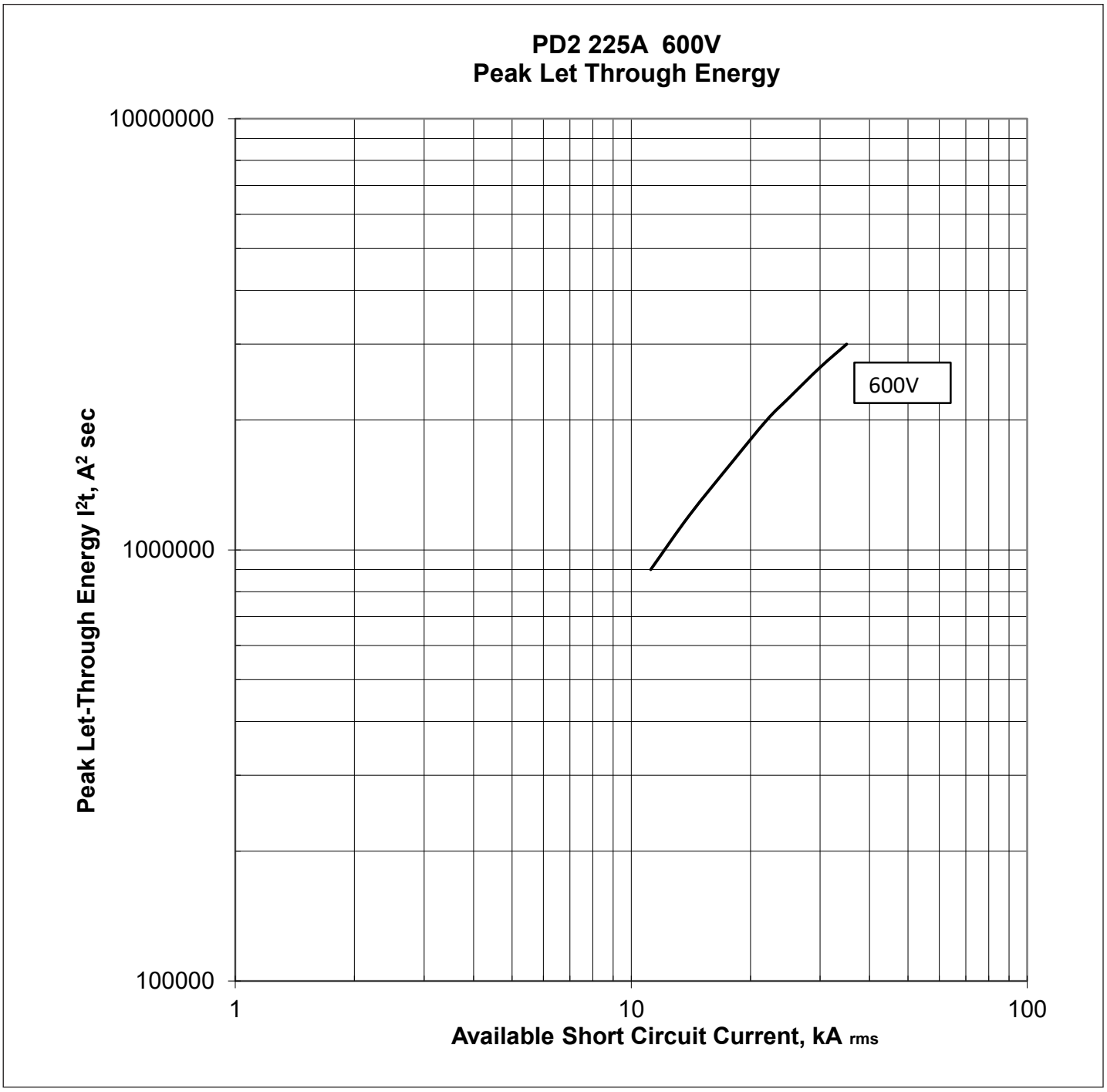


Figure 90. 600V let-through energy 225A.

April 2022