

## IEC 10 kA Distribution High (DH) Arrester – PDV-100 Optima

The PDV-100 Optima design satisfies the IEC 60099-4 Edition 3.0 DH requirement. Table 17 specifies the electrical characteristics while Table 18 specifies the dimensions, weights, clearances and insulation characteristics of the arrester only configuration.

NOTE: A PDV-100 arrester complete catalog number requires at least ten digits. Common hardware codes can be found in Tables 34 and 35.

**Table 17: PDV-100 Optima Arresters Electrical Characteristics**

Rated Voltage $U_r$ kV	Continuous Operating Voltage $U_c$ kV	Catalog Number		Residual Voltage kV							
		Imperial hardware	Metric hardware	0.5 $\mu$ s Steep front 10 kA	8/20 Impulse Wave						Switching Surge 0.5 kA
					1.5 kA	3 kA	5 kA	10 kA	20 kA	40 kA	
3	2.55	213703	294203	11.5	8.0	8.6	9.1	9.9	11.2	13.3	7.3
6	5.1	213705	294205	22.4	16.0	17.1	18.2	19.8	22.5	26.5	14.7
9	7.65	213708	294208	32.7	23.5	25.1	26.6	29.0	32.9	38.8	21.5
10	8.4	213709	294209	35.5	25.6	27.4	29.0	31.6	35.9	42.3	23.4
12	10.2	213710	294210	42.1	30.4	32.6	34.5	37.6	42.7	50.3	27.8
15	12.7	213713	294213	53.8	38.7	41.4	43.8	47.8	54.3	64.0	35.4
18	15.3	213715	294215	63.1	45.6	48.8	51.7	56.4	64.1	75.5	41.7
21	17	213717	294217	71.0	51.4	55.0	58.2	63.5	72.1	85.0	47.0
24	19.5	213720	294220	85.5	61.6	66.0	69.9	76.2	86.6	102.0	56.4
27	22	213722	294222	95.9	69.2	74.0	78.4	85.5	97.1	114.5	63.3
30	24.4	213724	294224	105.2	76.0	81.4	86.2	94.0	106.8	125.9	69.6
36	29	213729	294229	126.3	91.3	97.8	103.5	112.9	128.3	151.2	83.5
42	34	213734	294234	134.2	97.1	103.9	110.0	120.0	136.3	160.7	94.0