

PRODUCTS DATASHEET

FRM P Series

Fast-acting Fuses for Semi-conductor
Protection

Technical Data Sheet

1. Specification

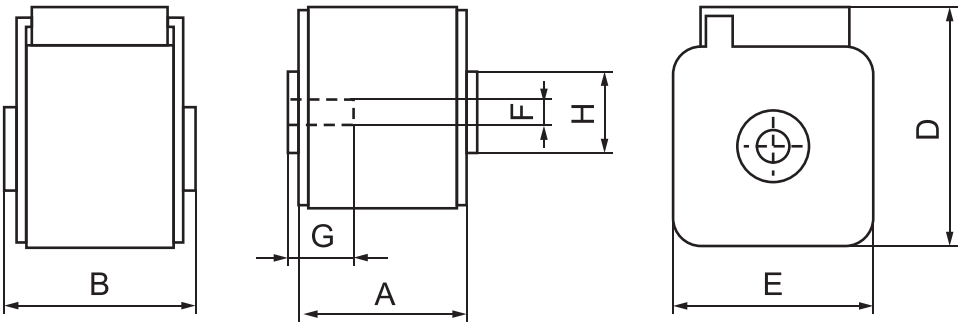
- 1.1 Rated Voltage : AC1000V AC1250/1300V
- 1.2 Utilization Category: aR
- 1.3 Breaking Capacity: 50KA



2. Standard: IEC60269-4

3. Product Dimension

Model No.	Rated Voltage (V)	Rated Current (A)	Dimension (mm)						
			A(max)	B	D	E	F	G	H
FRM60P75(K)	AC1000/AC1250/1300	50~400	74	75	43(59)	43	M8	5	17
FRM61P75(K)	AC1000/AC1250/1300	160~550	74	75	50(69)	50	M8	8	20
	AC1000	630							
FRM62P75(K)	AC1000/AC1250/1300	250~800	74	75	60(77)	60	M10	10	24
	AC1000	900~1000							
FRM63P75(K)	AC1000/AC1250/1300	315~1000	74	75	75(92)	75	M12	10	40
	AC1000	1100~1400							
FRM60P80(K)	AC1250/1300 DC1000	50~400	80	81	43(59)	43	M8	5	17
FRM61P80(K)	AC1250/1300 DC1000	160~630	80	81	50(69)	50	M8	8	20
FRM62P80(K)	AC1250/1300 DC1000	250~800	80	81	60(77)	60	M10	10	24
FRM63P80(K)	AC1250/1300 DC1000	315~1400	80	81	75(92)	75	M12	10	40
FRM72P90(K)	AC1250/1300 DC1000	250~800	80	90	60(77)	60	M10	10	24
FRM73P90(K)	AC1250/1300 DC1000	315~1400	80	90	75(92)	75	M12	10	40



4. Technical Parameter

4. 1Pre-arcing I^2t 、Melting I^2t 、Rated Power

Model No.	Rated Current (A)	1Pre-arcing I^2t	Melting I^2t	Rated Power(W)	Size	Curves
FRM60	50	130	820	20	0	Figure 5 Figure 9
	63	210	310	25		
	80	450	2750	30		
	100	860	5100	35		
	125	1430	8560	40		
	160	2820	17450	45		
	200	4930	29400	48		
	250	9510	56800	50		
	315	21440	130000	60		
	350	28900	174500	65		
	400	42000	249600	70		
FRM61	160	2220	13480	40	1	Figure 6 Figure 10
	200	4170	24500	45		
	250	7800	45700	52		
	315	16600	98200	60		
	350	21580	129600	65		
	400	31100	184400	70		
	450	44700	264500	80		
	500	63150	375000	85		
	550	84700	499200	90		
FRM62 FRM72	630	125300	754300	98	2	Figure 7 Figure 11
	250	6750	40200	65		
	315	13450	81600	75		
	350	16400	99200	80		
	400	25800	155300	85		
	450	35400	210400	90		
	500	49200	294600	95		
	550	65700	389600	100		
	630	93300	554100	110		
	700	130000	769400	115		
FRM63 FRM73	800	194500	1200000	125	3	Figure 8 Figure 12
	315	9200	54600	90		
	350	12810	77550	95		
	400	18860	115200	105		
	450	26700	160200	107		
	500	37200	225000	110		
	550	51700	310400	115		
	630	82200	490500	120		
	700	114600	700600	125		
	800	169800	1051000	135		
	900	249400	1500000	145		
	1000	339200	2050800	150		
	1100	459200	2751000	155		
	1250	575000	3400000	175		
	1400	794600	4200700	185		

4.2 Melting I^2t Correction Factor K

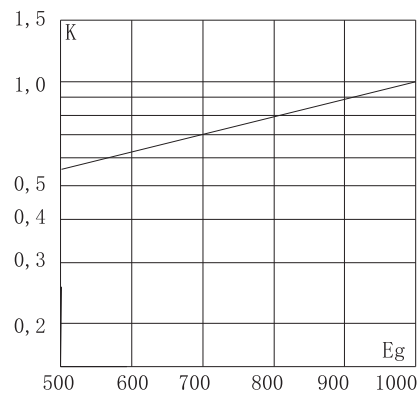


Figure 2

Calculation Method:

$$I^2t(\text{correction}) = I^2t(\text{rated}) \times K$$

Note: Eg is the working voltage

4.3 Peak Value of Arc Voltage

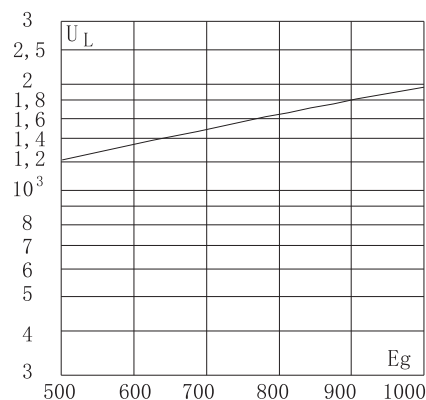


Figure 3

Note: U_L is the peak value of arc voltage; Eg is the working voltage; This figure shows the case when the power factor is 15%.

4.4 Power consumption correction factor Kp

The rated power consumption is given in 4.1, and the power consumption below the rated current can be calculated as shown below.

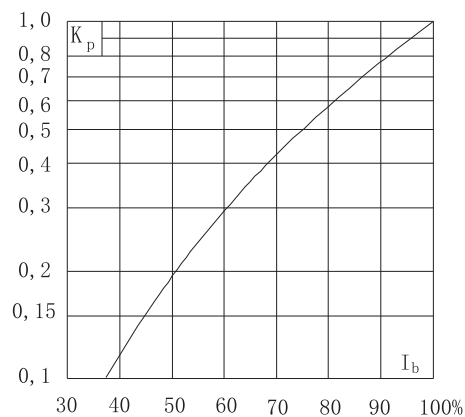
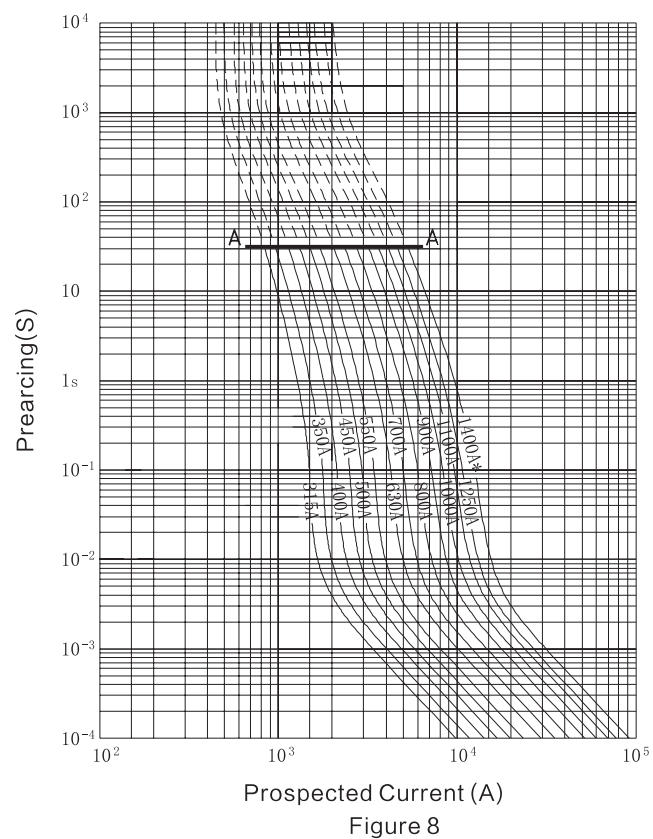
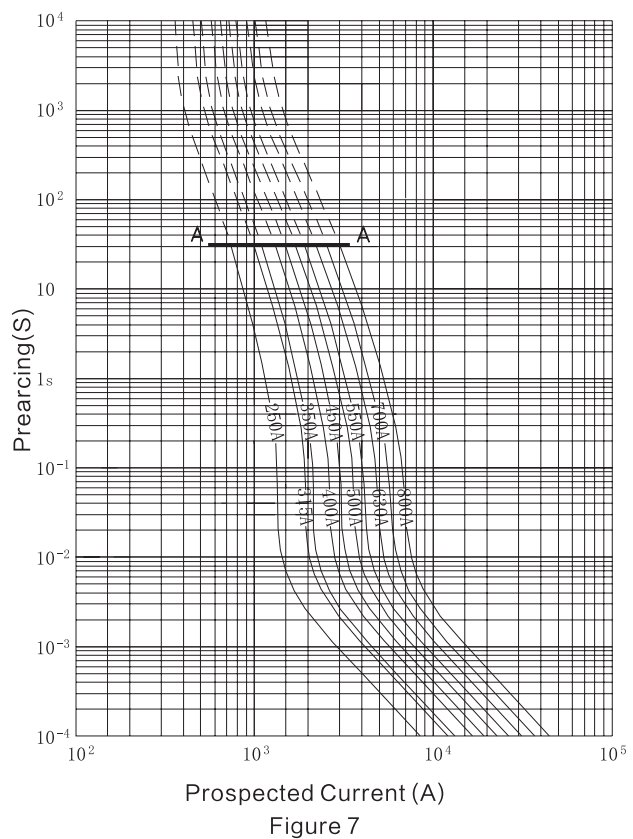
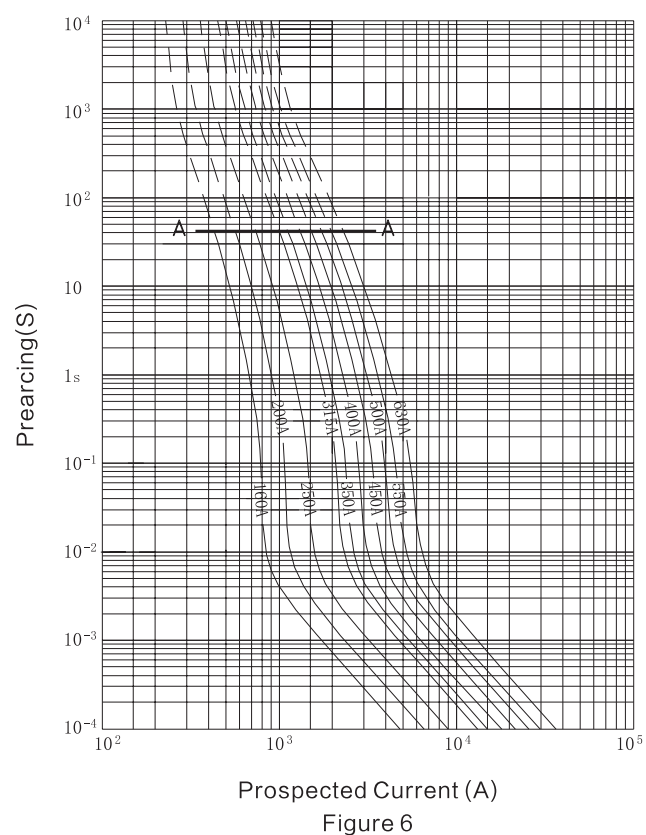
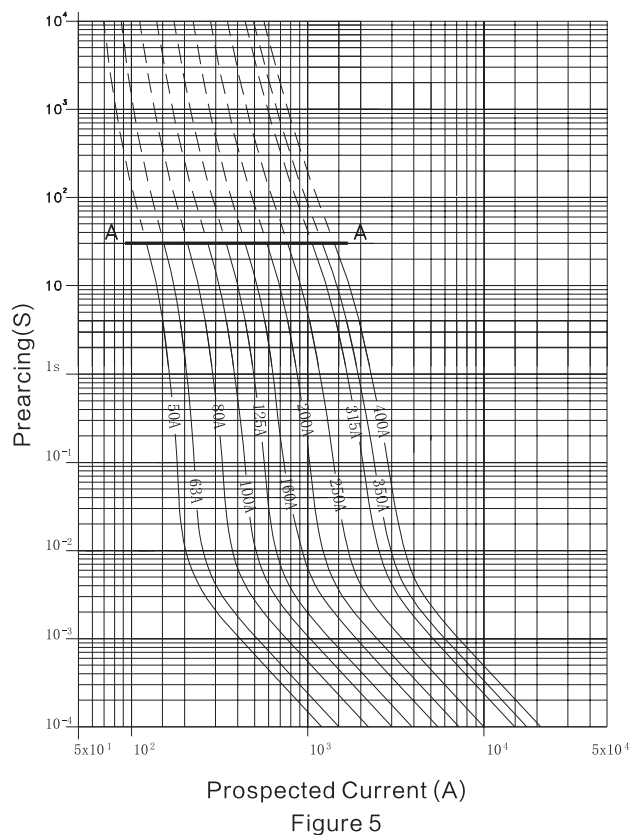


Figure 4

Calculation Method:

$$W(\text{correction}) = W(\text{rated}) \times Kp$$

4.5 Time-current characteristics curves



4.6 Cut-off current characteristics

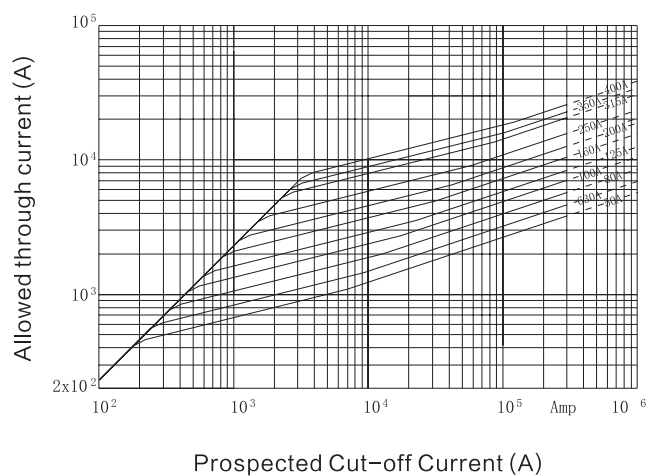


Figure 9

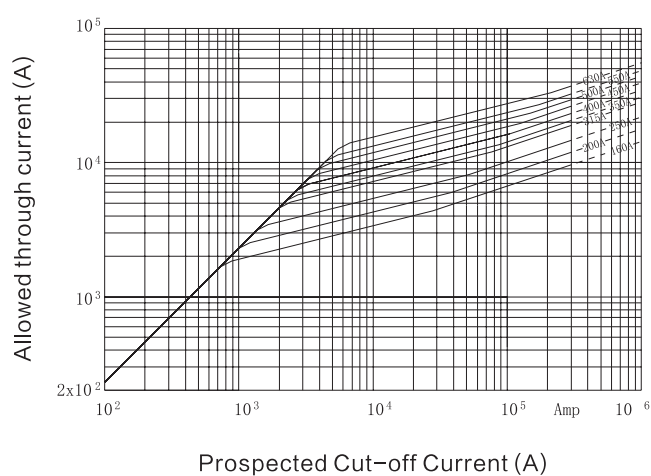


Figure 10

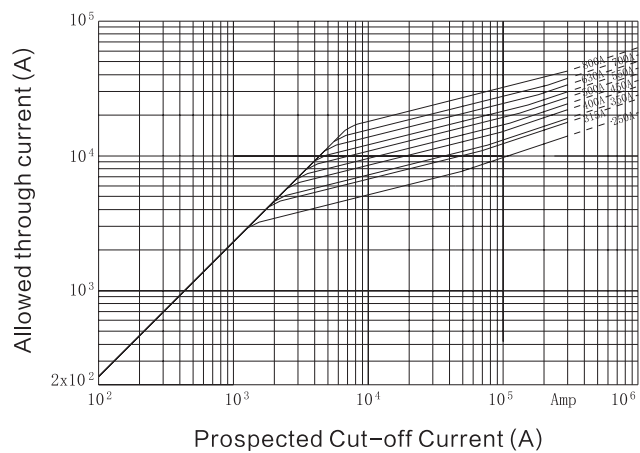


Figure 11

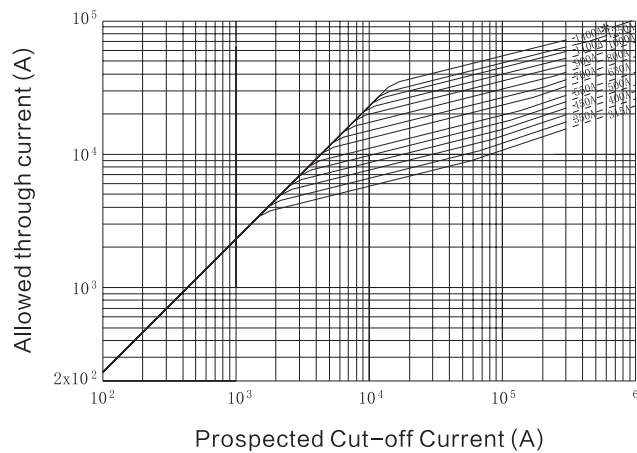


Figure 12

The product information stated in the sample shall be subject to the material object.
If there is any change without prior notice, please call us for consultation.



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