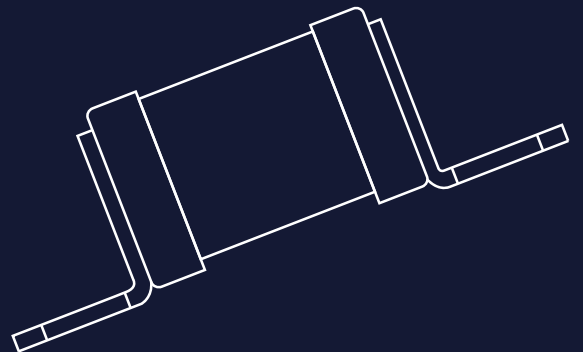


FRSI 弗而兹电气

PRODUCTS DATASHEET

FRG系列 AC230V/300V
交流快速熔断器

产品规格书

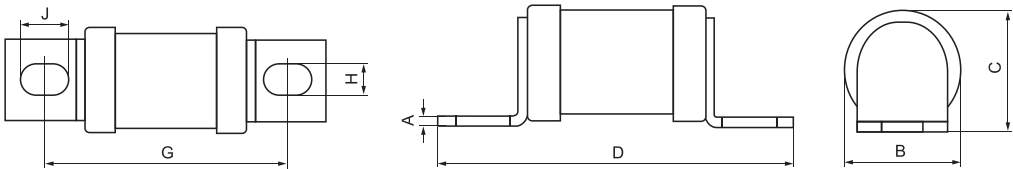


1.产品概述Overview

- 1.1 额定电压Rated Voltage: AC230V/300V
- 1.2 功能等级Functional Level: aR
- 1.2 分断能力Breaking Capacity: 100kA
- 1.3 符合标准规范Standard: IEC60269-4 GB/T13539.4

2.外形尺寸Dimension

产品型号 Type	额定电流(A) Rated current	额定电压(V) Rated Voltage	尺寸Dimension(mm)						
			A	B	C	D	G	H	J
FRG18LB42	25~180	AC230V/300V	2	18	19	56	42	6.5	9
FRG21LB42	63~200	AC230V/300V	2.5	21.3	22	58	42	9	11
FRG27LB58	80~315	AC230V/300V	3	26.8	28	80	58	9	11
FRG36LB60	160~400	AC230V/300V	3	33	35	85	58	11	19
FRG48LB65	200~500	AC230V/300V	3.5	47.5	51	90	65	11	16



3.技术参数 Technical Parameters

3.1 弧前Pre-arcing 熔断Clearing 功率Watts Loss

型号 Type	额定电压(V) Rated Voltage	电流(A) Rated Current	弧前 ¹ t Pre-Arcing	熔断 ² t Clearing	功率(W) Watts Loss	曲线 Curve
FRG18LB42	AC230V/300V	25	18	250	4	图5 图7
		32	32	450	5	
		35	50	600	5	
		50	100	1400	7	
		63	180	2200	9	
		80	300	3800	10	
		100	600	7500	10	
		125	700	8200	16	
		160	1100	16000	20	
		180	1600	29000	21	
FRG21LB42	AC230V/300V	63	180	2200	9	图5 图6 图7
		80	300	3800	10	
		100	600	7500	10	
		125	700	8200	16	
		160	1100	16000	20	
		180	1600	29000	21	
		200	1700	31000	28	

型号 Type	额定电压(V) Rated Voltage	电流(A) Rated Current	弧前I ² t Pre-Arcing	熔断I ² t Clearing	功率(W) Watts Loss	曲线 Curve
FRG27LB58		80	300	3800	10	图5 图6 图7
		100	600	7500	10	
		125	700	8200	16	
		160	1100	16000	20	
		180	1600	29000	21	
		200	1700	31000	28	
		250	3200	40000	30	
		315	6000	75000	35	
FRG36LB60		160	1100	16000	20	图5 图6 图7
		180	1600	29000	21	
		200	1700	31000	28	
		250	3200	40000	30	
		315	6000	75000	35	
		355	8000	150000	37	
		400	14000	160000	40	
		FRG48LB65	200	1700	31000	
250			3200	40000	30	
315			6000	75000	35	
355			8000	150000	37	
400			14000	160000	40	
450			18000	220000	42	
500			24000	300000	54	

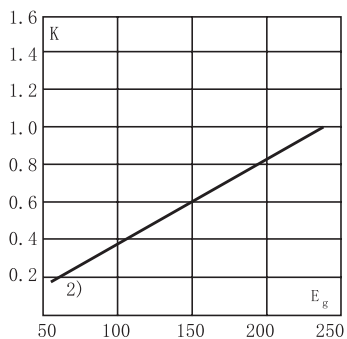
3.2熔断 I^2t 修正系数

图2

注: E_g 为工作电压其它电压 I^2t 可根据此图计算。

计算方法:

$$I^2t(\text{修正}) = I^2t(240V) \times K$$

3.3电弧电压峰值

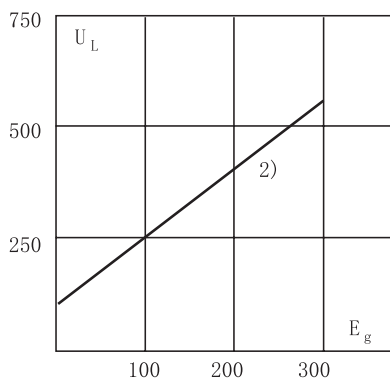


图3

注: U_L 为电弧电压峰值; E_g 为工作电压; 此图为功率因数为15%的情况。3.4功耗修正系数 K_p

额定功耗已在3.1给出, 低于额定电流的功耗可按下图计算。

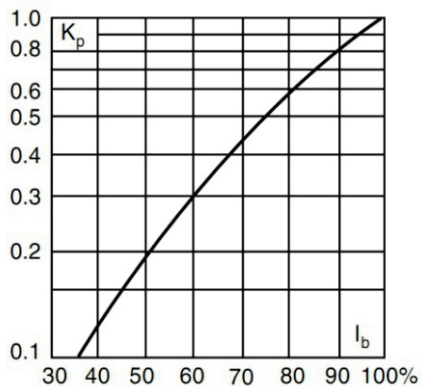
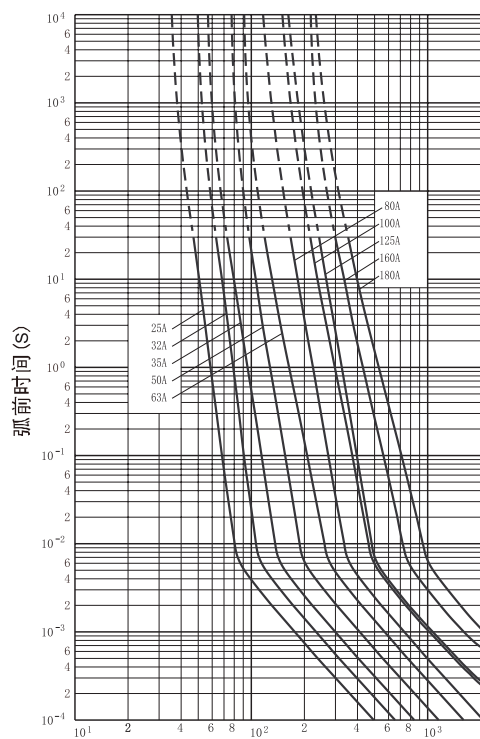


图4

计算方法:

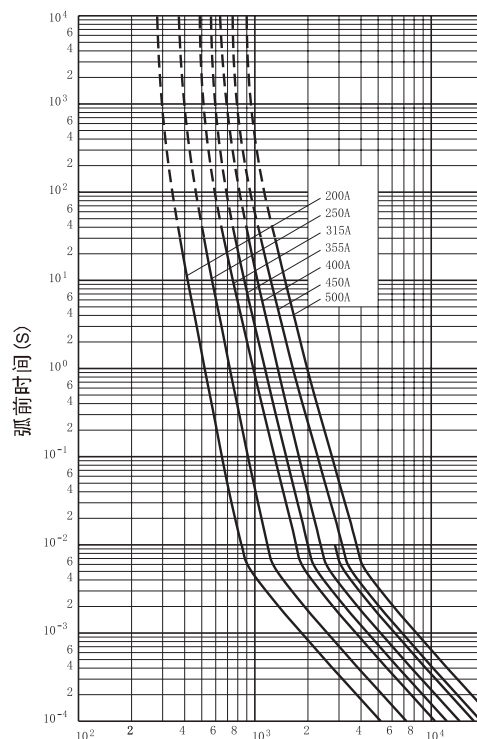
$$W(\text{修正}) = W(\text{额定}) \times K_p$$

3.5时间-电流曲线



预期电流有效值 (A)

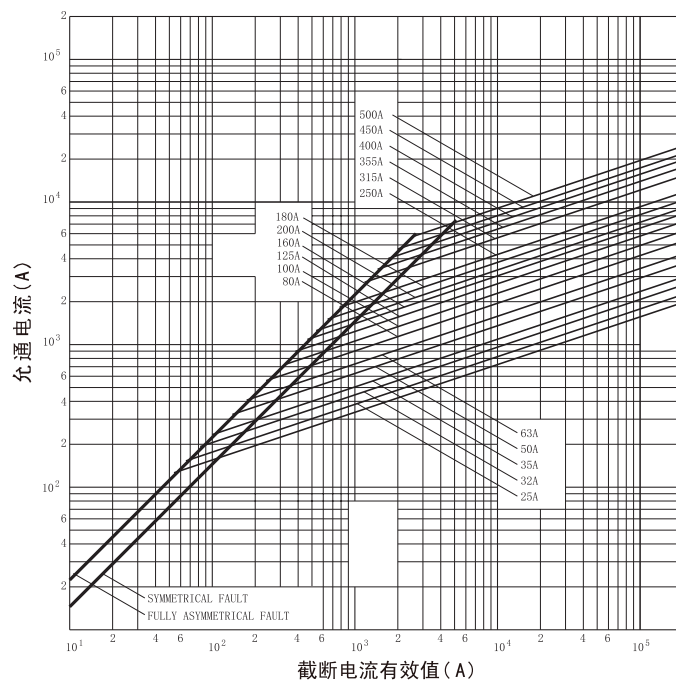
图 5



预期电流有效值 (A)

图 6

3.6截断电流特性



截断电流有效值 (A)

图 7

样本所述的产品资料以实物为准，若有变更本公司恕不另行通知，欢迎致电咨询。

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.

F20211213

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