

Ultra Rapid Semiconductor Protection Fuse

European Square Body Fuses 690V


















German Standard DIN 80
Voltage Rating - 690V
Current Ratings from 16A to 450A
aR Characteristics
Size 00




Key Features:

- ❖ Extremely high breaking capacity fuses for the protection of power semiconductors as per IEC Standard 60269.1 and 4.
- ❖ 690V voltage rating complying with IEC 33
- ❖ Non Magnetic construction
- ❖ gRB Characteristics with ratings from 16 to 125A in accordance with VDE 636-23
 - Clearing all overloads
 - Improving safety and protection
 - Enabling selective co-ordination with all fuses
- ❖ All models available with or without integrated trip indicator
- ❖ Microswitch MS 4L 2-5 B6
- ❖ Fuse holder SI 00 DIN80

Main Characteristics:

Size	Voltage U _N (V)	Ref:	Micro Switch		Current rating I _N (A)	Pre-arcing I ² t @ 1 ms I ² t _p (A ² s)	Total Clearing I ² t @ U _N (A ² s)	Power Losses 0.8I _N I _N		Tested Interrupting rating
00	690V	069GUDA0016F	Y		16	7	52	3.8	7	200kA @ 690V
		069GUDA0020F	Y		20	10	75	5	9	
		069GUDA0025F	Y		25	15	120	6	11	
		069GUDA0032F	Y		32	32	210	8.2	15	
		069GUDA0040F	Y		40	61	400	9.9	18	
		069GUDA0050F	Y		50	102	700	11.5	21	
		069GUDA0063F	Y		63	177	1200	12.6	23	
		069GUDA0080F	Y		80	390	2200	13.8	25	
		069GUDA0100F	Y		100	692	3900	15.4	28	
		069GUDA0125F	Y		125	1170	6600	18.1	33	
		069GUDA0160F	Y		160	2680	14000	19.8	36	
		069GUDA0200F	Y		200	4690	24000	23.1	42	
		069GUDA0250F	Y		250	8300	42500	27.5	50	
		069GUDA0315F	Y		315	17520	81000	31.9	58	
		069GUDA0350F	Y		350	25450	118000	33	60	
		069GUDA0400F	Y		400	33200	150000	38.5	70	
600V	060GUDA0450F	Y		450	19600	225000	40.7	74	200kA @ 600V	

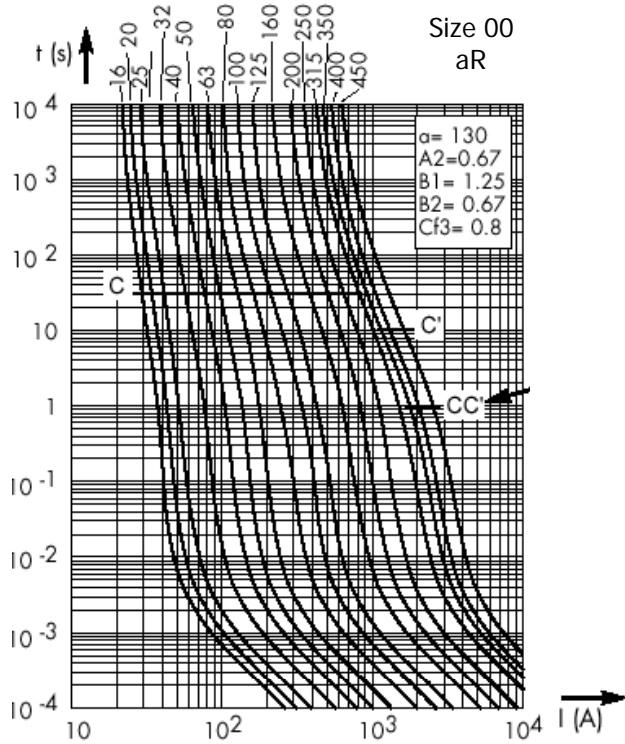
Notes: Minimum operating voltage for integrated trip indicator = 20V

Micro switch reference : MS 4L 2-5 B6 

Electrical Characteristics:

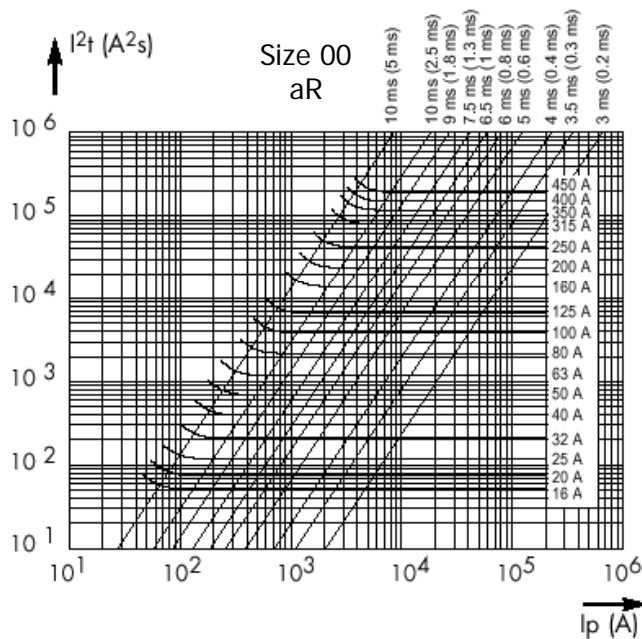
Times vs Current Characteristics:

These curves indicate, for each rated current, the pre-arcing time vs. the RMS pre-arcing current. Tolerance for the mean pre-arcing current $\pm 8\%$

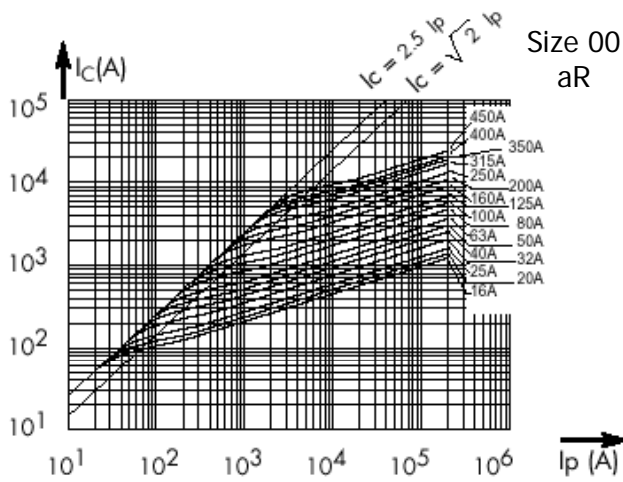


Total Clearing I^2t :

The horizontal curves show, for each rated current, values of total clearing $I^2t (I^2t_t)$ as a function of prospective current $I_p @ U_N$ with $\cos\phi = 0.15$. Oblique lines indicate total clearing duration Tt , with associated pre-arcing duration in brackets.

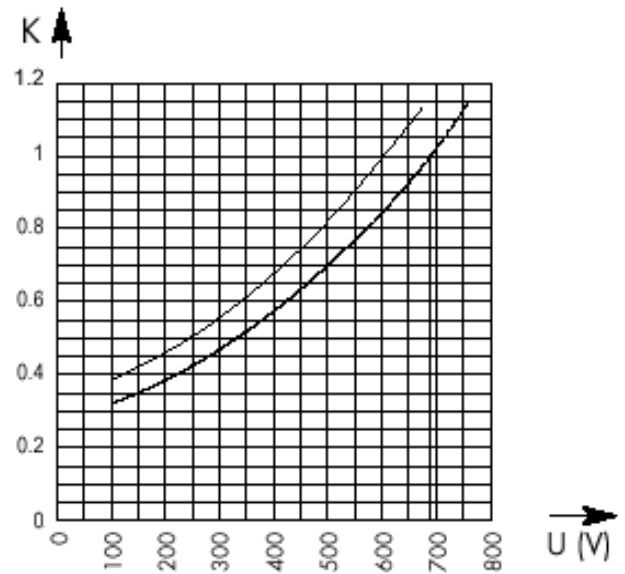


Cut off Characteristics:



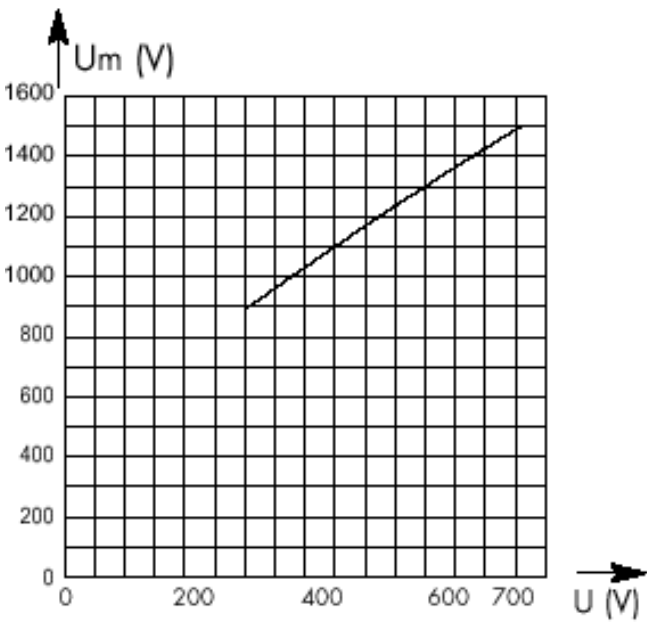
Curves show for each current rating value of peak let-through current I_c as a function of available fault current I_p

Corrective Factor:



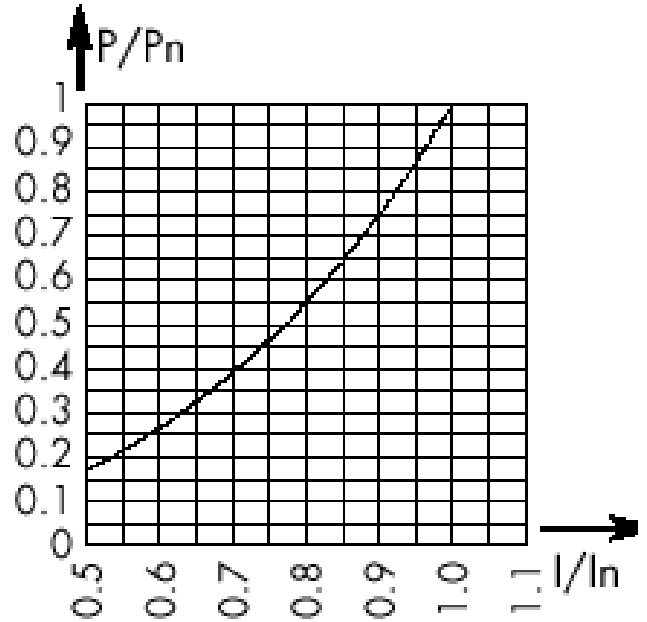
Mean curves show variation of total clearing time ($I^2 t_t$) and total clearing duration T_t as a function of operating voltage U .

Peak Arc Voltage:



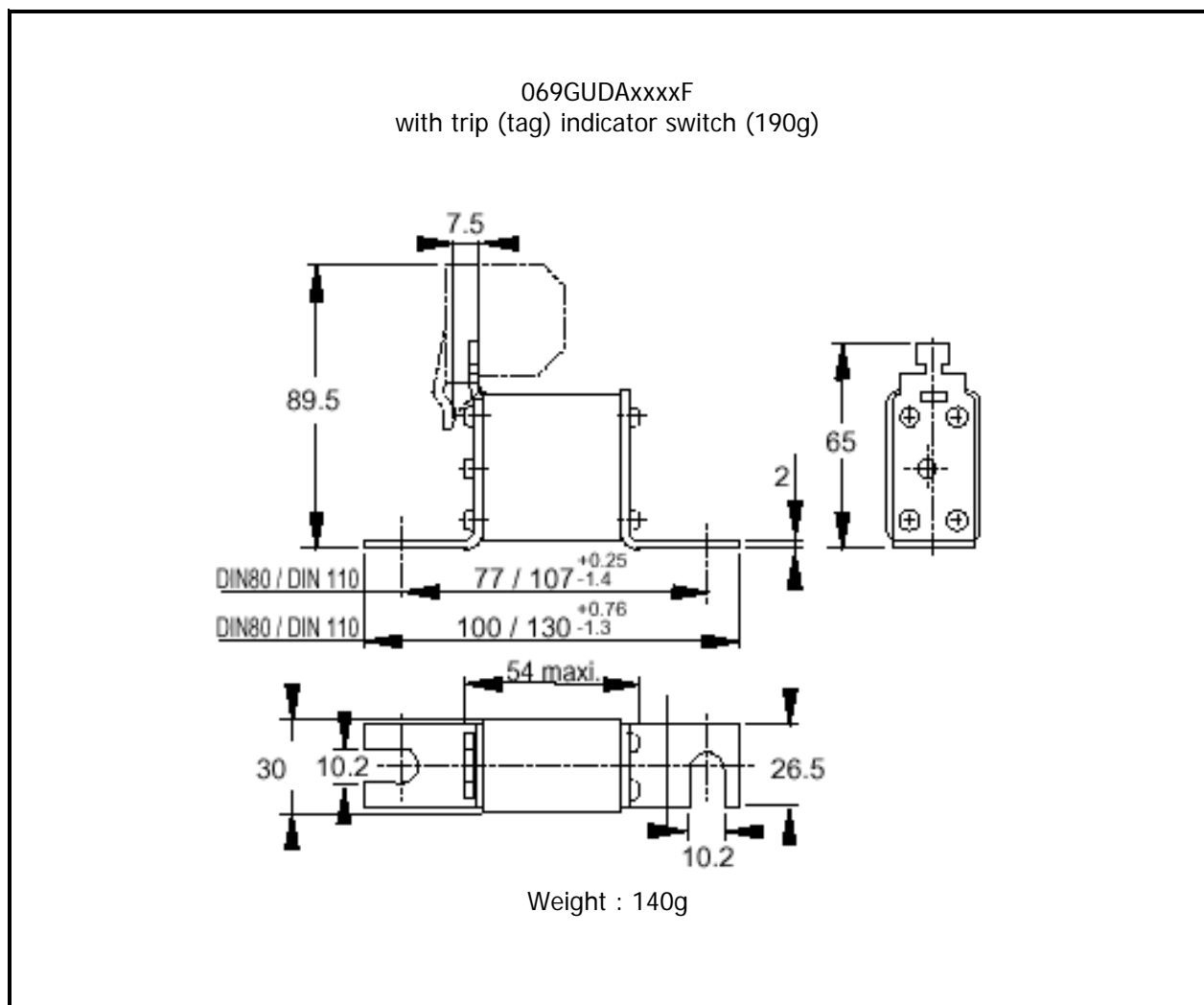
Curve shows peak value U_m of arc voltage which appears across fuse link as a function of the operating voltage $U @ \cos \varphi = 0.15$

Dissipated Power:



Curve enables computation of power losses P for a I_N -rated fuse as a function of RMS current I (as a multiple of I_N for steady state operation).

Outline Drawing & Ordering Information:



ORDERING INFORMATION

(Please quote code as below)

Voltage Rating (V)	Type	Size	Fixing	Current Rating (A)	Trip Indicator
690	GU	D	A	16 to 450	F

Order code: e.g. **069GUDA0050F** = 690V German Standard, Size 00, 80mm fixing, 50amp fuse with trip (tag) indicator switch

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