

Square Body DC Fuses — 750Vdc: 63-500A

750Vdc 63-500A

Specifications

Description: High speed fuses, for the protection of DC circuits in equipment.

Dimensions: See dimensions illustration.

Ratings:

Volts: — 750Vdc

Amps: — 63-500A

IR: — 750Vdc IR: 100kA, L/R = 100 ms.

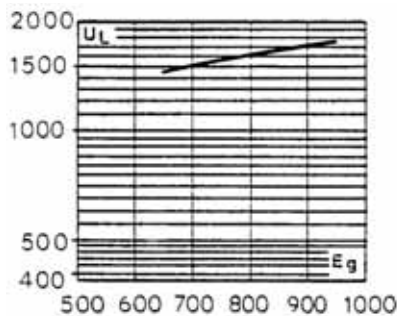
— 1000Vdc IR: 100kA, L/R = 40 ms

Agency Information: Consult Cooper Bussmann.

Electrical Characteristics

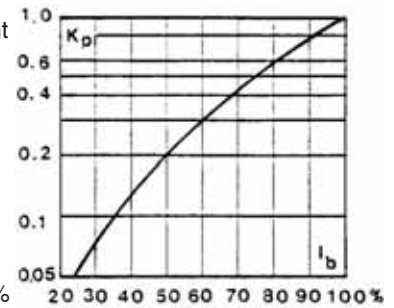
Arc Voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage E_g .



Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in % of the rated current.



Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

Catalog Numbers

Fuse Size	Catalog Numbers		Electrical Characteristics		
	-BK/130	-EK/-	Rated Voltage (Vdc)	Rated Current RMS-Amp	Watt Loss (W)
1*	170E3577	170E3583	750	63	10.0
	170E3578	170E3584		80	13.0
	170E3579	170E3585		100	16.0
	170E3580	170E3586		125	21.0
	170E3581	170E3587		160	26.0
1	170E5417	170E5420		200	37.0
	170E5418	170E5421		250	46.0
2	170E8335	170E8345		250	47.0
	170E8336	170E8346		315	57.0
	170E8337	170E8347		400	73.0
3	170E9681	170E9685		500	91.0

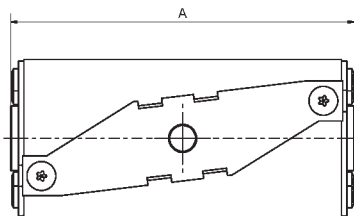
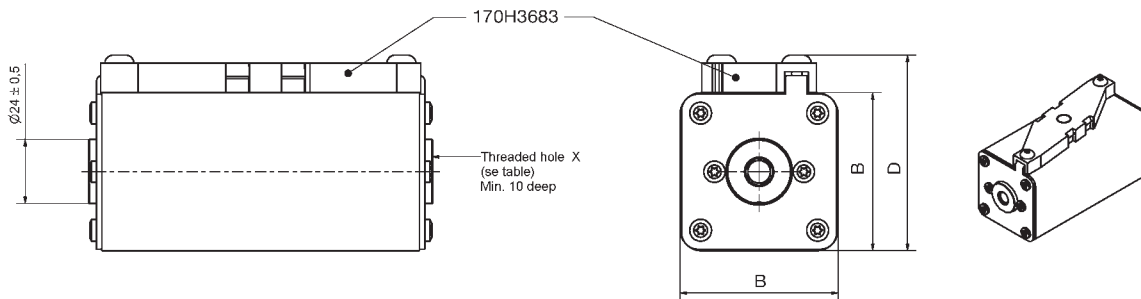
Data Sheet: Size 1*: 170K3620
 Size 1: 170K3622
 Size 2: 170K3624
 Size 3: 170K3626
 Microswitch: 170H0069, 170H3027 (gold)

Square Body DC Fuses — 750Vdc: 63-500A

Square Body DC Fuses 750Vdc / 63 - 500A

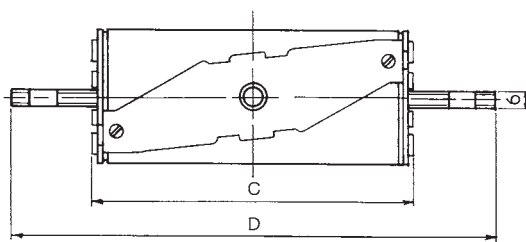
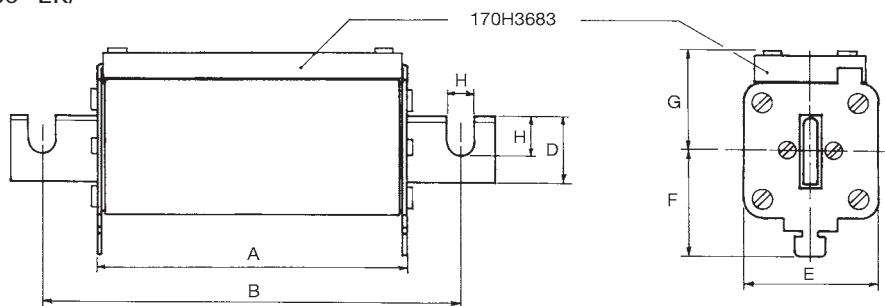
(mm):

Type -BK/130



Size/Type	A	B	D
1* BK/130	129	43	61
1 BK/130	130	51	69
2 BK/130	130	59	77
3 BK/130	131	74	90

Type -EK/-

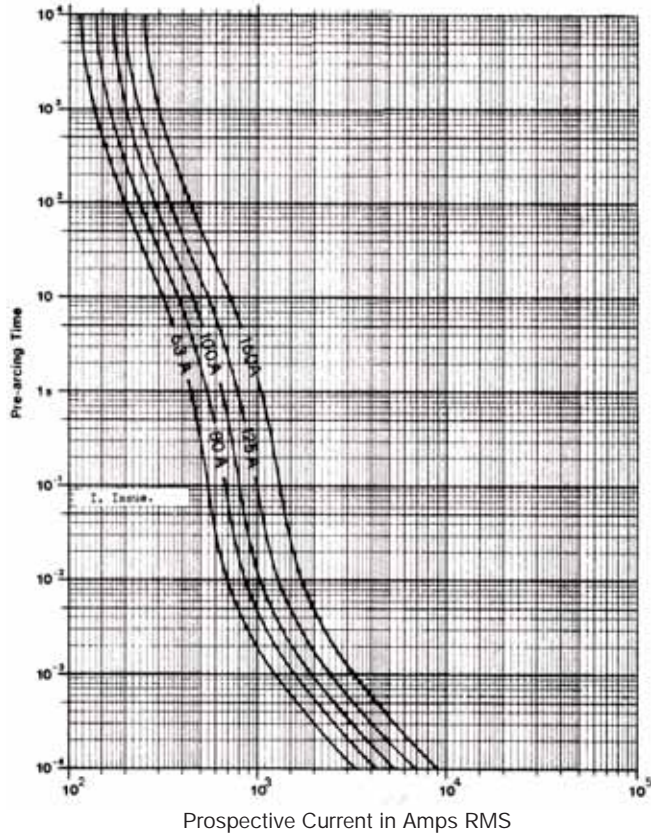


Size/Type	A	B	C	D	E	F	G	H	I	J
1* EK/155	124	156	129	180	43	36	41	9	9	18
1 EK/165	124	166	129	191	51	37	41	11	14	25
2 EK/170	124	170	129	205	59	42	48	13	21	30
3 EK/170	125	170	130	206	74	51	56	13	20	36

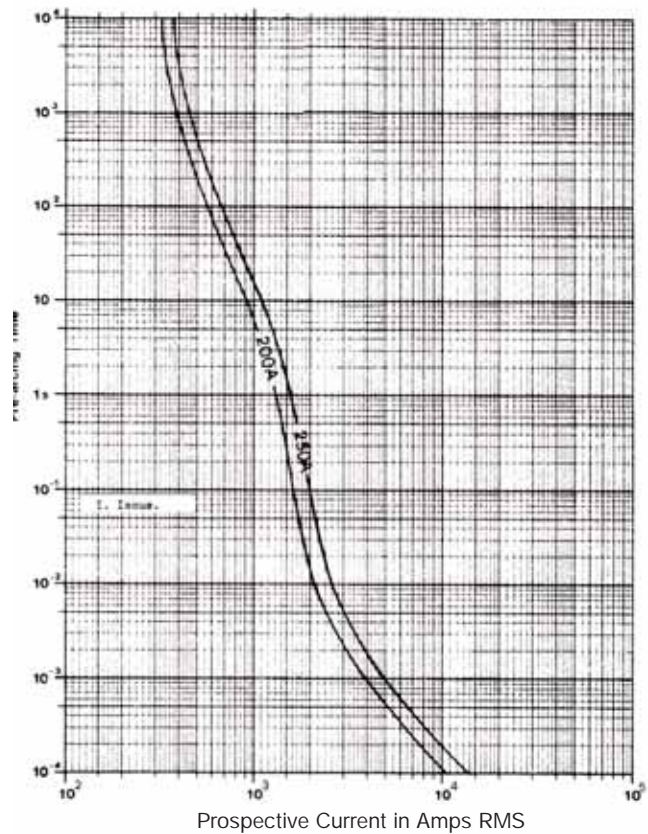
High Speed Fuses

Square Body DC Fuses — 750Vdc: 63-500A

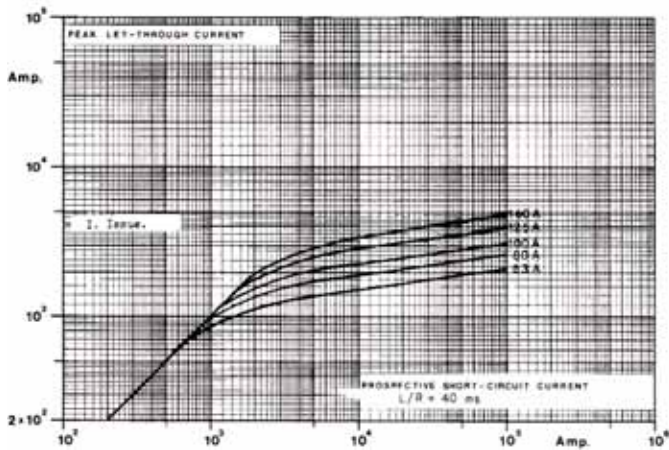
Square Body DC Fuse — 63-160A: 750V
Time-Current Curve



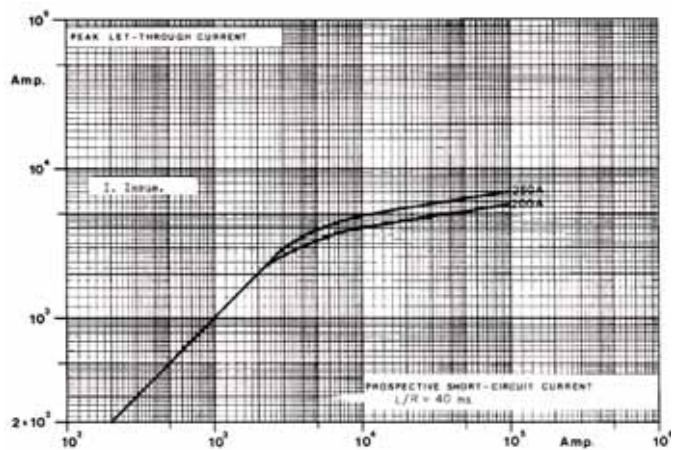
Square Body DC Fuse — 200-250A: 750V
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve

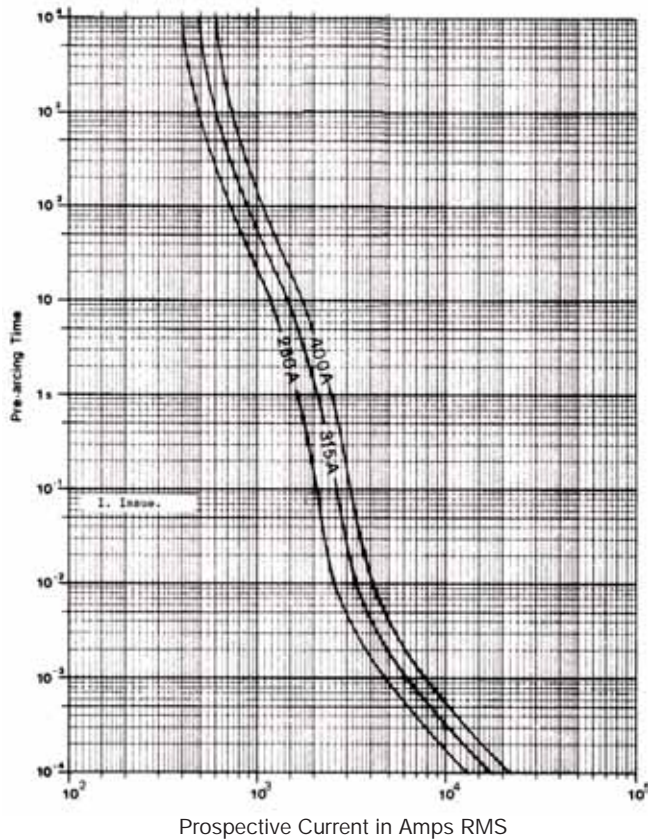


Data Sheet: Available upon request

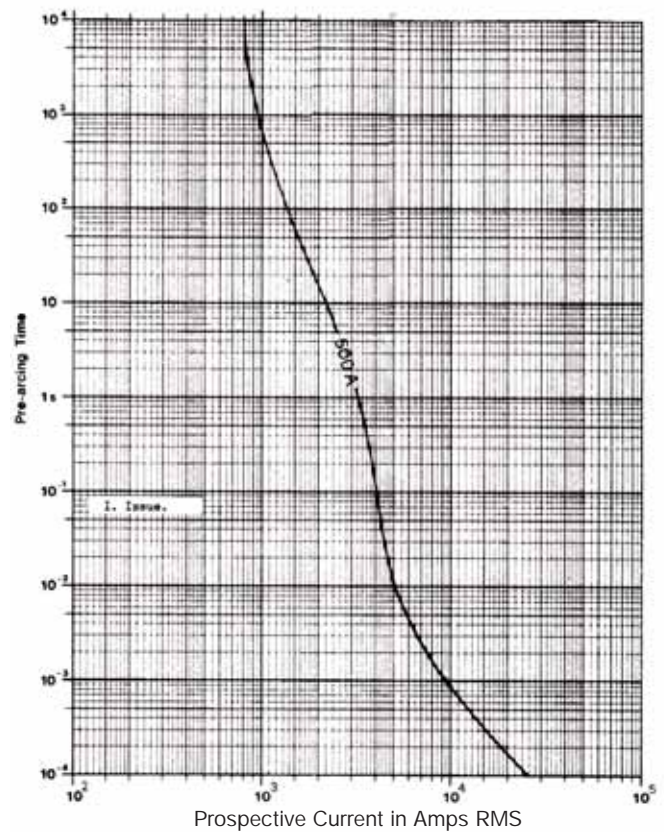
Data Sheet: Available upon request

Square Body DC Fuses — 750Vdc: 63-500A

Square Body DC Fuse — 250-400A: 750V
Time-Current Curve

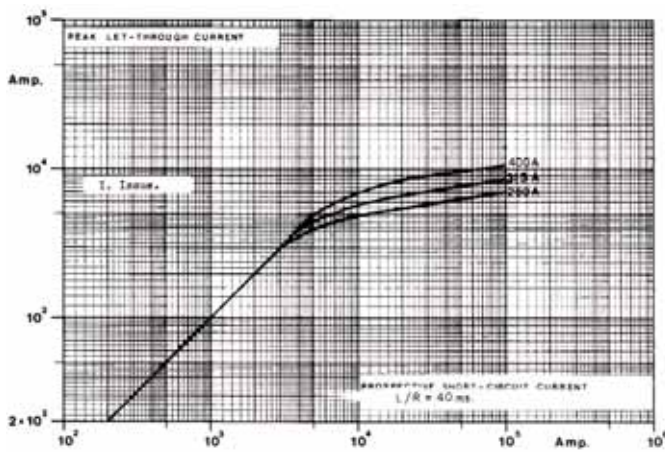


Square Body DC Fuse — 500A: 750V
Time-Current Curve

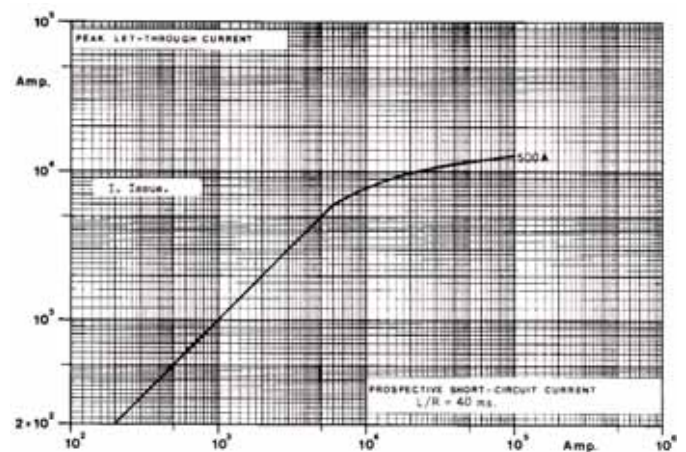


High Speed Fuses

Peak Let-Through Curve



Peak Let-Through Curve



Data Sheet: Available upon request

Data Sheet: Available upon request

Square Body DC Fuses — 1200Vdc: 160-420A

1200Vdc 160-420A

Specifications

Description: High speed fuses that provides superior protection in light and heavy harsh DC traction applications as 1200Vdc and below circuits, and as DC link/power converters.

Dimensions: See dimensions illustration.

Ratings:

Volts: — 1200Vdc

Amps: — 160-420A

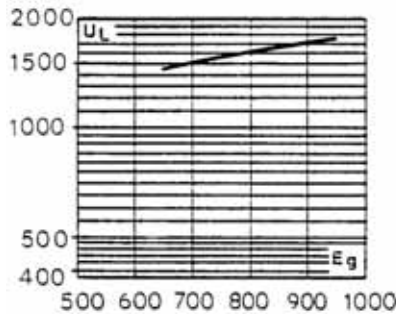
IR: — 1200Vdc = 100kA L/R: 15 ms.

Agency Information: Consult Cooper Bussmann.

Electrical Characteristics

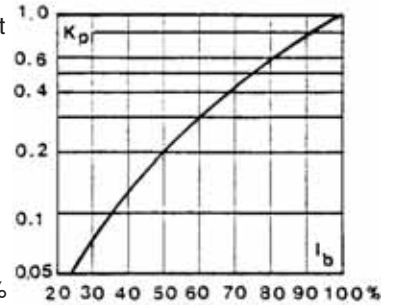
Arc Voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage E_g .



Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in % of the rated current.



Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

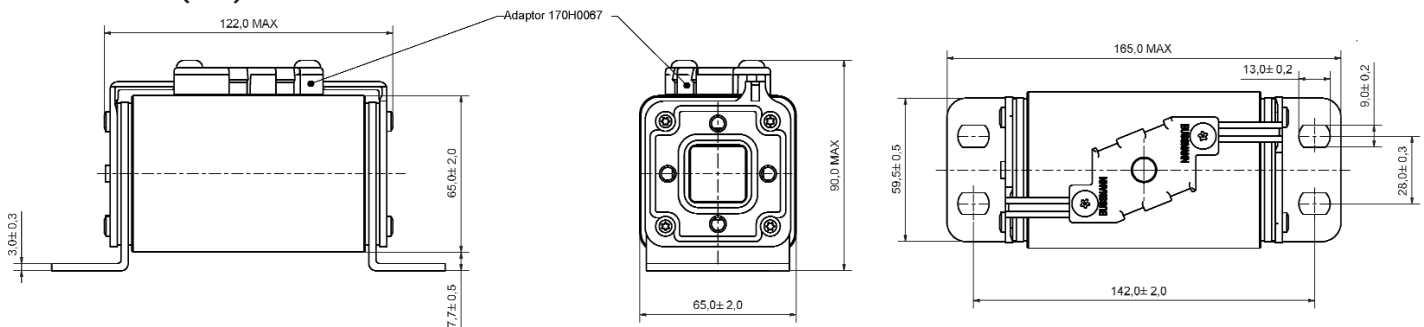
Catalog Numbers

Fuse Type	Cat. Numbers -SKNB/140 Type K Indicator	Rated Voltage (Vdc)	Rated Current RMS-Amp	Electrical Characteristics		Watts Loss (W)
				Max I^2t (A ² Sec) @ 1000Vdc		
				L/R = 15ms	L/R = 45ms	
2SKN / 140	170F8230	1200	160	12000	20000	75.0
	170F8231		200	20000	35000	85.0
	170F8232		250	43000	75000	94.0
	170F8233		315	87000	150000	104.0
	170F8234		400	180000	310000	120.0
	170F8235		420	215000	375000	122.0

Data Sheet: 170K5520

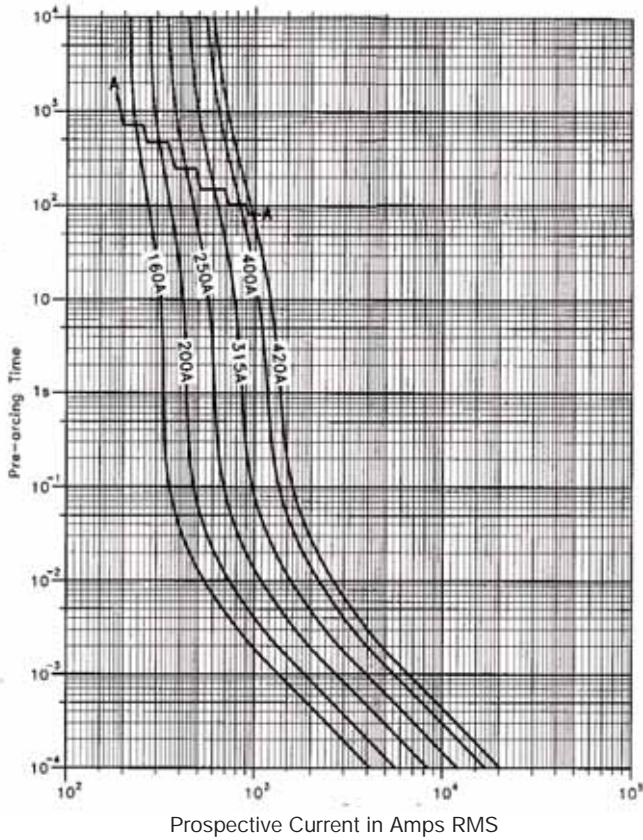
Microswitch: 170H0069, 170H3027 (gold)

Dimensions (mm):



Square Body DC Fuses — 1200Vdc: 160-420A

Square Body DC Fuse — 160-420A: 1200V Time-Current Curve



High Speed
Fuses

Data Sheet: Available upon request

Square Body DC fuses — 2000Vdc: 10-125A

2000Vdc 10-125A

Specifications

Description: High speed fuses for the protection of DC circuits in equipment.

Dimensions: See dimensions illustration.

Ratings:

Volts: — 1200Vdc

Amps: — 160-420A

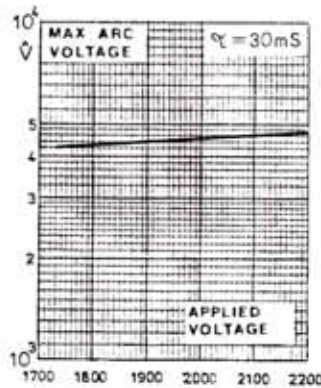
IR: — 1200Vdc = 100kA L/R: 15 ms.

Agency Information: Consult Cooper Bussmann.

Electrical Characteristics

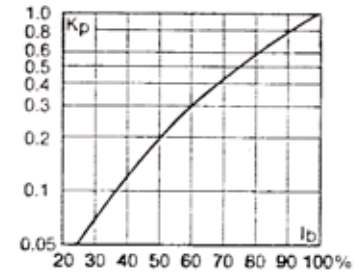
Arc Voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage E_g .



Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in % of the rated current.



Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

Catalog Numbers

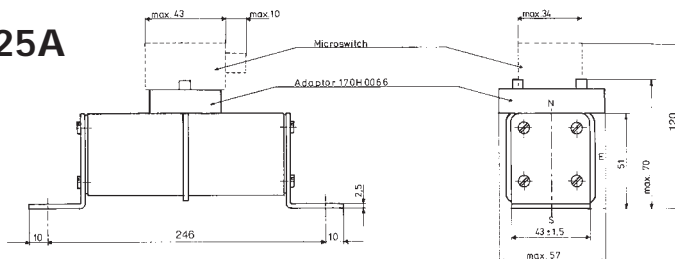
Fuse Type	Cat. Number -SKN/246 Type K Indicator	Electrical Characteristics		
		Rated Voltage (Vdc)	Rated Current RMS-Amp	Watt Loss (W)
1*SKN/246	170E3976	2000	10	7
	170E3970		16	11
	170E3950		20	13
	170E3951		25	17
	170E3952		32	22
	170E3953		40	27
	170E3954		50	34
	170E3955		63	43
	170E3956		80	50

Fuse Type	Cat. Number -SKN/246 Type K Indicator	Electrical Characteristics		
		Rated Voltage (Vdc)	Rated Current RMS-Amp	Watt Loss (W)
1*SKN/246	170E3937	2000	20	13
	170E3938		25	16
	170E3939		32	20
	170E3940		40	25
	170E3941		50	32
	170E3942		63	40
	170E3943		80	51
	170E3944		100	64
	170E3945		125	80

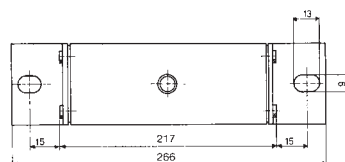
2000Vdc / 10 - 125A

Dimensions (mm):

Data Sheet: 170K4538
Microswitch: 170H0239, 170H3030 (gold)

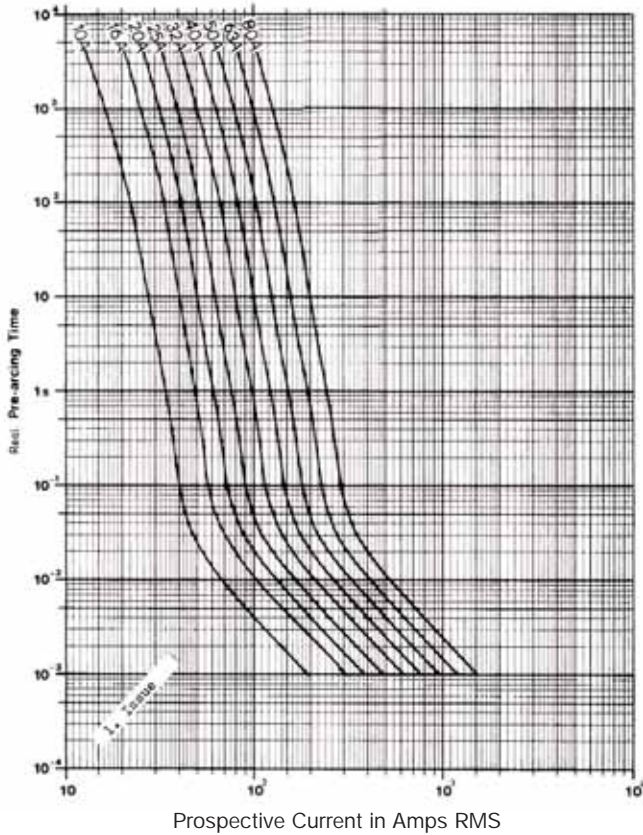


Data Sheet: 170K4900
Microswitch: 170H0239, 170H3030 (gold)

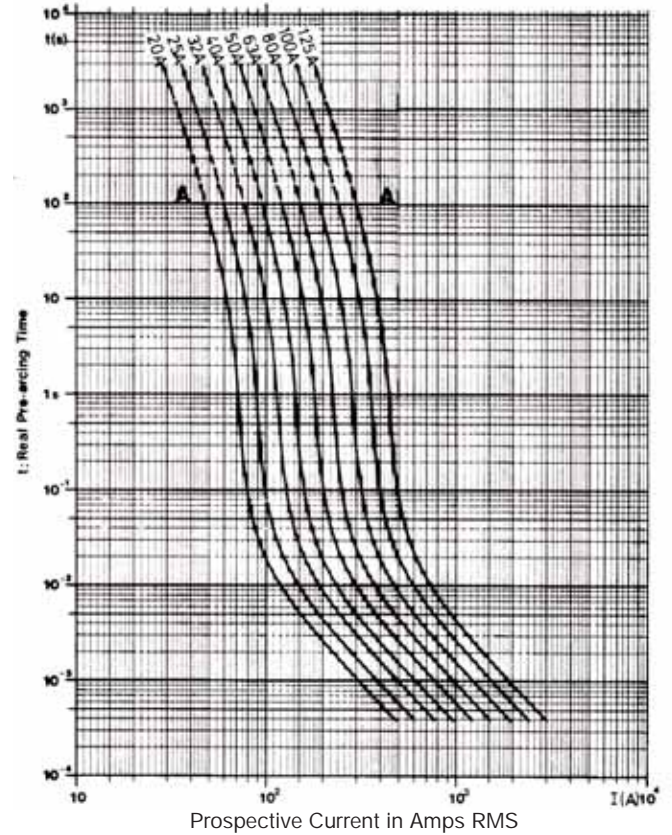


Square Body DC fuses — 2000Vdc: 10-125A

Square Body DC Fuses — 10-80A: 2000V
Time-Current Curve

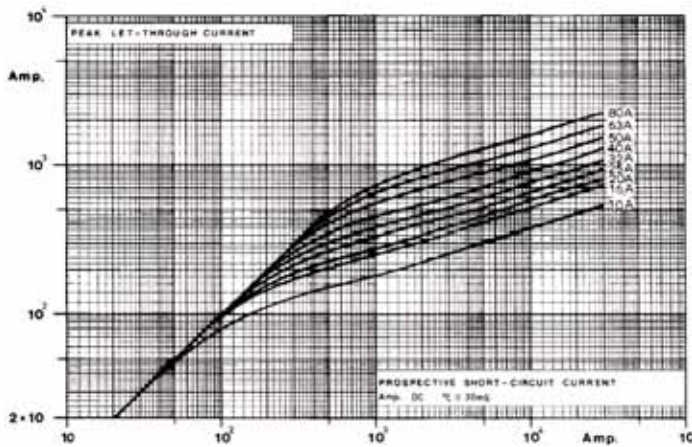


Square Body DC Fuses — 20-125A: 2000V
Time-Current Curve

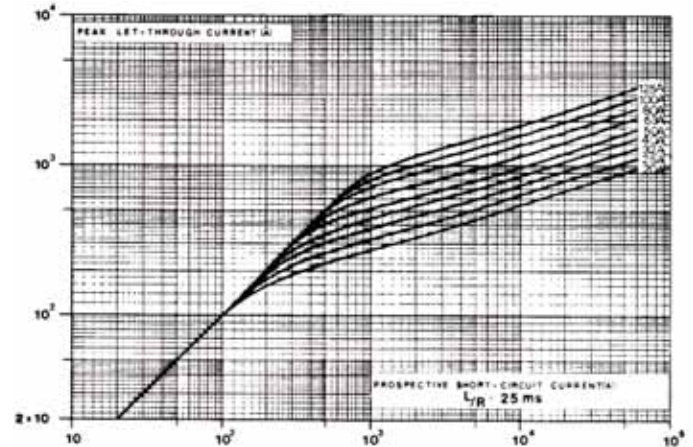


High Speed Fuses

Peak Let-Through Curve



Peak Let-Through Curve



Data Sheet: Available upon request

Data Sheet: Available upon request

Square Body DC Fuses — 4000Vdc: 20-450A

4000Vdc 20-450A

Specifications

Description: High speed fuses for the protection of DC circuits in equipment.

Dimensions: See dimensions illustration.

Ratings:

Volts: — 4000Vdc

Amps: — 20-450A

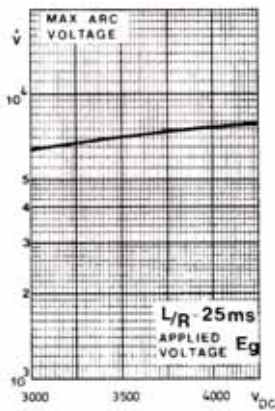
IR: — 60kA L/R: 25 ms.

Agency Information: Consult Cooper Bussmann.

Electrical Characteristics

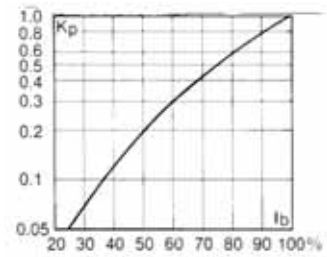
Arc Voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage E_g .



Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in % of the rated current.



Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

Catalog Numbers

Fuse Type	Cat. Numbers		Electrical Characteristics	
	-SKN/394 Type K Indicator	Rated Voltage (Vdc)	Rated Current RMS-Amp	Watts Loss (W)
1*SKN/394	170E3914	4000	20	23
	170E3915		25	28
	170E3916		32	34
	170E3917		40	45
	170E3918		50	57
	170E3919		63	72
	170E3984		80	91
	170E3922		125	143
2 SKN/394	170E8882	4000	160	182
	170E8883		200	228
	170E8884		250	285
2//2SKN/394	170E8885	4000	315	360
	170E8886		350	400
	170E8887		400	455
	170E8888		450	515

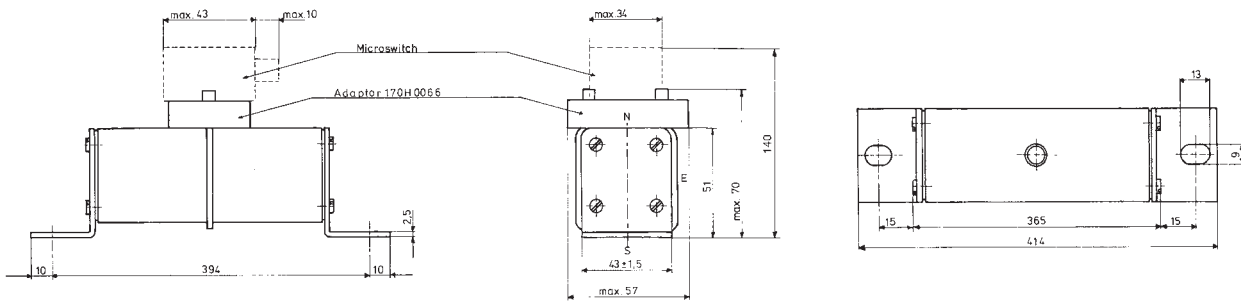
DC Fuses — 4000Vdc: 20-450A

DC Fuses

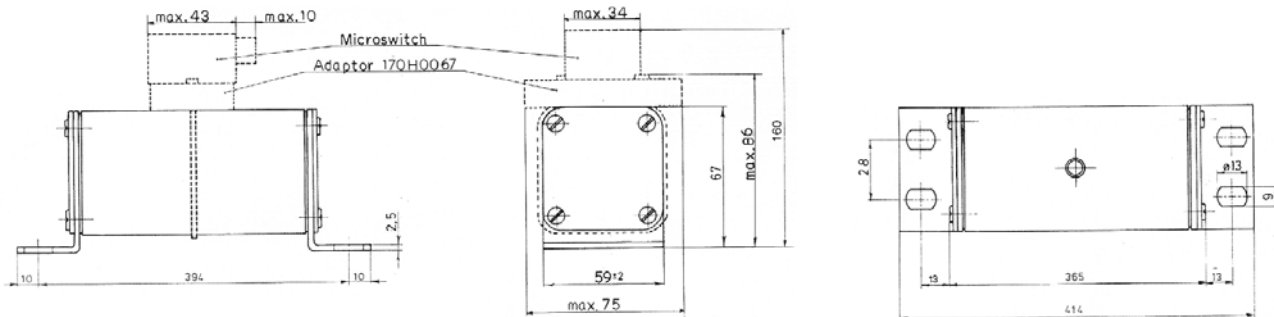
4000Vdc / 20 - 450A

Dimensions (mm):

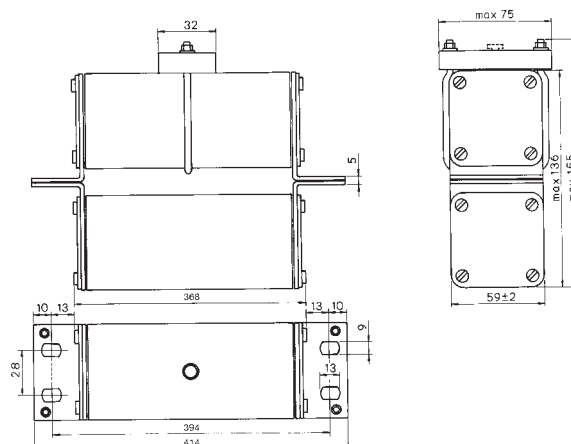
Type 1*SKN/394



Type 2SKN/394



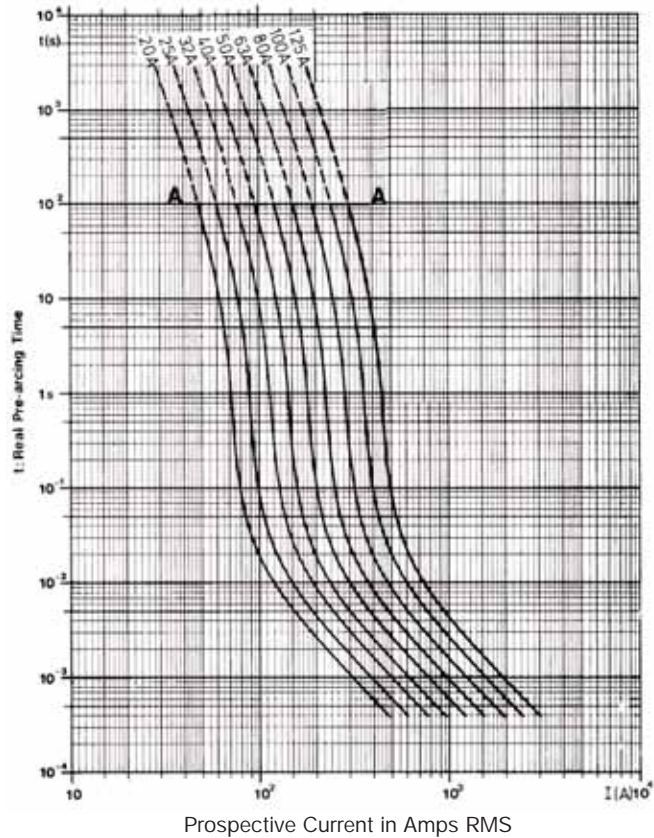
Type 2//SKN/394



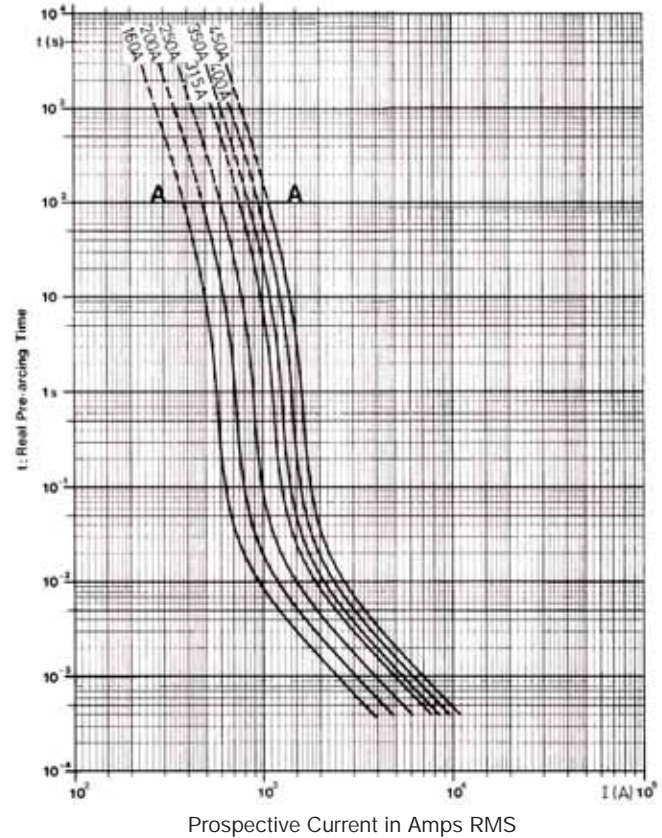
High Speed Fuses

Square Body DC Fuses — 4000Vdc: 20-450A

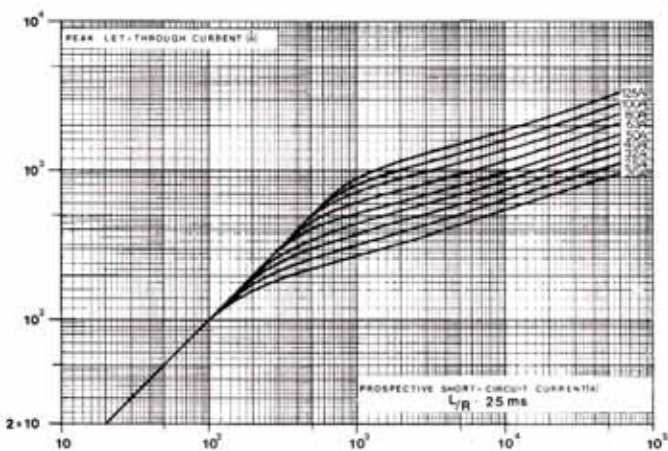
Square Body DC Fuses — 20-125A: 2000V
Time-Current Curve



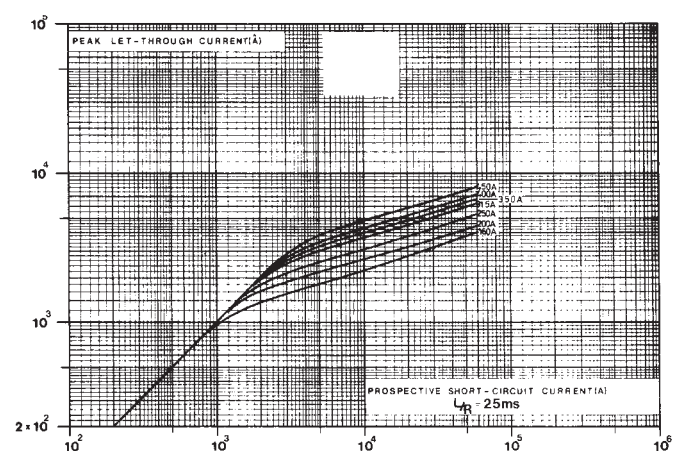
Square Body DC Fuses — 160-450A: 4000V
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve



Data Sheet: Available upon request

Data Sheet: Available upon request