1000V (IEC) 50-1400A

Specifications

Description: Square body US style high speed fuses.

Dimensions: See dimensions

illustration. **Ratings:**

Volts: - 1000Vac. Amps: - 50-1400A

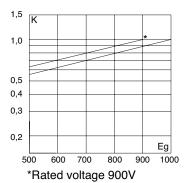
IR: - 150kA RMS Sym.

Agency Information: CE, Designed and tested to IEC 60269: Part 4, UL Recognized.



Total clearing I2t

The total clearing l^2t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing l^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_q , (rms).

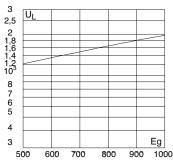


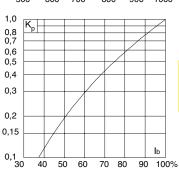
Arc Voltage

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, (rms) at a power factor of 15%.

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 (I2t)
- · Low watts loss
- · Superior cycling capability

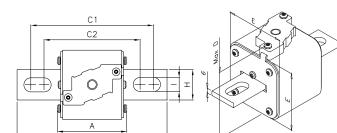
Typical Applications

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

Dimensions (mm)

Type -FKE/115

Size	Type	В	C1	C2	D	Ε	Н	1	
1*	FKE/115	156	130	101	59	45	20	10	
1	FKE/115	160	127	102	69	53	25	14	
2	FKE/115	160	127	102	77	61	25	14	
3	FKE/115	159	128	101	92	76	36	16	
1mm =	Imm = 0.0394" / 1" = 25.4mm								





Catalog Numbers										
Catalog Numbers		Electrical Characteristics								
-FKE/115		Rated I²t (A² Sec)		2 0 \						
Type K Indicator for		Rated	Ift (A		Watts					
Indicator for Micro	Size	Current	Due eve	Clearing at 1000V						
170M3531	1*	RMS-Amps 50	Pre-arc 135	815	Loss 20					
170M3531	'	63	215		20 25					
		80		1300	30					
170M3533 170M3534			460	2750	35					
170M3534 170M3535		100 125	860 1450	5100	40					
		_		8600	_					
170M3536 170M3537		160 200	2850 4950	17500 29500	45 48					
170M3537					_					
170M3539		250 315	9550 21500	57000 130000	50 60					
170M3540		350	29000		65					
170M3540 170M3541		400	42000	175000 250000	70					
170M3541	1	160	2200	13500	40					
170M4531	'	200	4150	24500	45					
170M4532 170M4533		250	7750	46000	52					
170M4534		315	16500	98500	60					
170M4535		350	21500	130000	65					
170M4536		400	31000	185000	70					
170M4537		450	44500	265000	80					
170M4537		500	63000	375000	85					
170M4539		550	84500	500000	90					
170M4540		630	125000	755000	98					
170M5531	2	250	6750	40000	65					
170M5531	_	315	13500	81500	75					
170M5532		350	16500	99000	80					
170M5534		400	26000	155000	85					
170M5535		450	35500	210000	90					
170M5536		500	49500	295000	95					
170M5537		550	66000	390000	100					
170M5537		630	93500	555000	110					
170M5539		700	130000	770000	115					
170M5540		800	195000	1200000	125					
170M8531	3	315	9200	54500	90					
170M8532		350	13000	77500	95					
170M8533		400	19000	115000	105					
170M8534		450	27000	160000	107					
170M8535		500	37500	225000	110					
170M8536		550	52000	310000	115					
170M8537		630	82500	490000	120					
170M8538		700	115000	700000	125					
170M8539		800	170000	1050000	135					
170M8540		900	250000	1500000	145					
170M8541		1000	340000	2050000	150					
170M8542		1100	460000	2750000	155					
170M8543		1250	575000	3400000	175					
170M8544*		1400	795000	4200000*	185					

^{*} Rated voltage 900V.



Did You Know?

Cooper Bussmann® Fuse Installation Enables Food Processor To Meet Manufacturing Demand



When one of America's largest retailers requested a special packaging size from Beech-Nut baby foods, the company developed a new packaging system with motors

and drives having state-of-the-art overcurrent protection.

The maintenance staff required a fuse system that was DIN-rail mountable for ease of installation with open fuse indication and a finger-safe design. And, the most important need was to use current-limiting overcurrent protection to minimize the arc-flash hazard to plant personnel in accordance with NFPA 70E guidance. The plant's associate electrical engineer chose the Cooper Bussmann[®] CUBEFuse[®] compact design because it would save time laying out and building the sub panel. He was looking for components that were easy to wire and would be part of a sub panel system that would be easy to maintain over time.

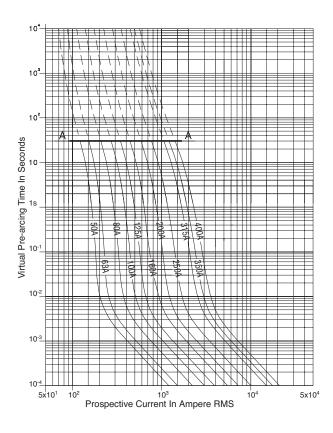
The fuse panel utilizes 39 three-pole, 10A CUBEFuse sets. The fuse holders snap onto an easy to install 35mm DIN rail versus time-consuming drilling and tapping mounting holes for all the fuse holders. The panel has a total of 117 fuse installations with expansion room up to 147 units.

[·] Watts loss provided at rated current.

Microswitch ordered separately. See accessories on page 179-180.

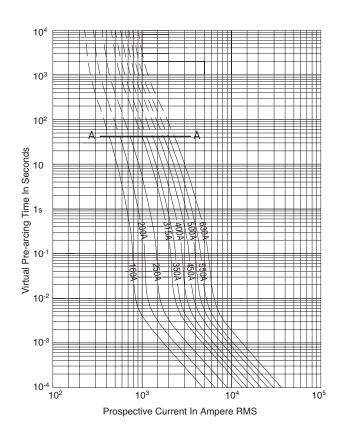
Size 1* — 50-400A: 1000V

Time-Current Curve

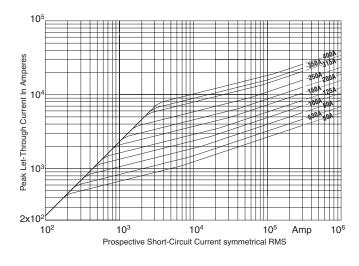


Size 1 — 160-630A: 1000V

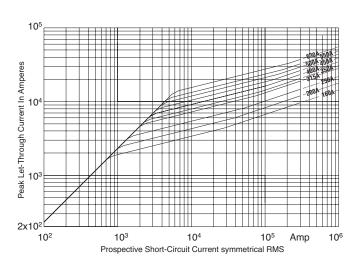
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve

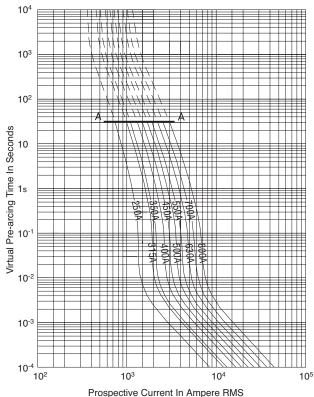


Data Sheet: 17058564 Data Sheet: 17058566



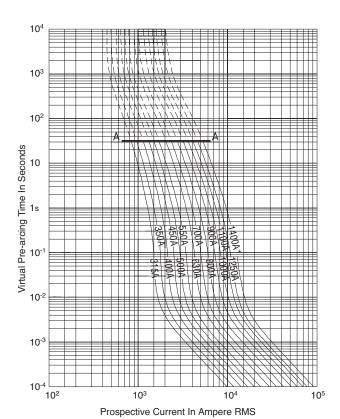
Size 2 — 250-800A: 1000V

Time-Current Curve



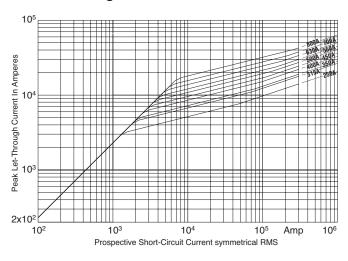
Time-Current Curve

Size 3 — 315-1400A: 1000V

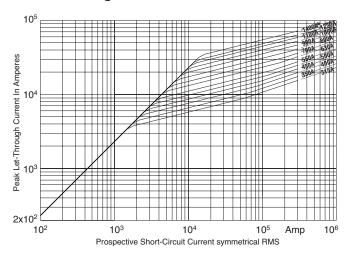


Prospective Current in Ampere Rivis

Peak Let-Through Curve



Peak Let-Through Curve



^{* 1400}A fuses are derated to 900V

Data Sheet: 17058568 Data Sheet: 17058570

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Eaton:

170M3531	170M3532	170M3534	170M3535	170M3537	170M3538	170M3539	170M3540	170M3541	170M4531
170M4533	170M4534	170M4537	170M4539	170M5531	170M5532	170M5533	170M5534	170M5535	170M5536
170M5537	170M5538	170M5539	170M8531	170M8532	170M8533	170M8534	170M8535	170M8536	170M8537
170M8538	170M8539	170M8540	170M8542	170M8543	170M8544	170M4532	170M4540	170M5540	170M3533
170M3536	170M4536								