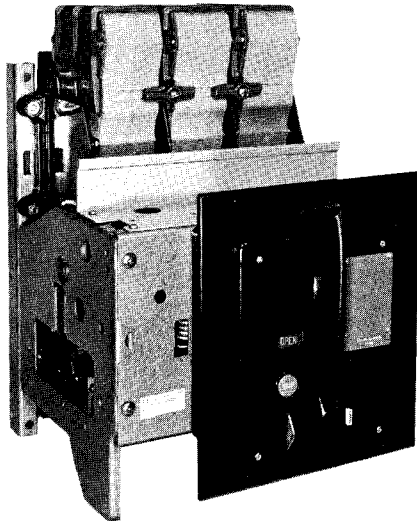


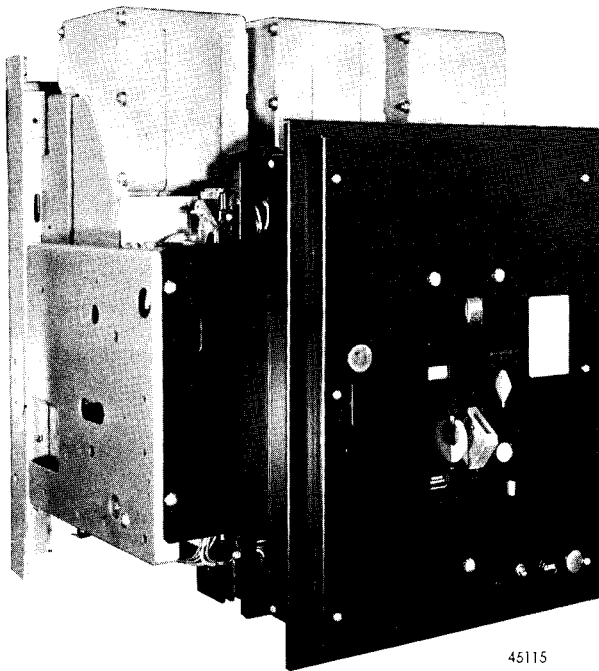
**K-LINE[®]****600 VOLTS AC OR 250 VOLTS DC****K-225, K-600, K-1600, K-2000, K-3000, and K-4000**

45077

Type K-600 manually-charged, stored-energy, quick-make stationary-mounted circuit breaker

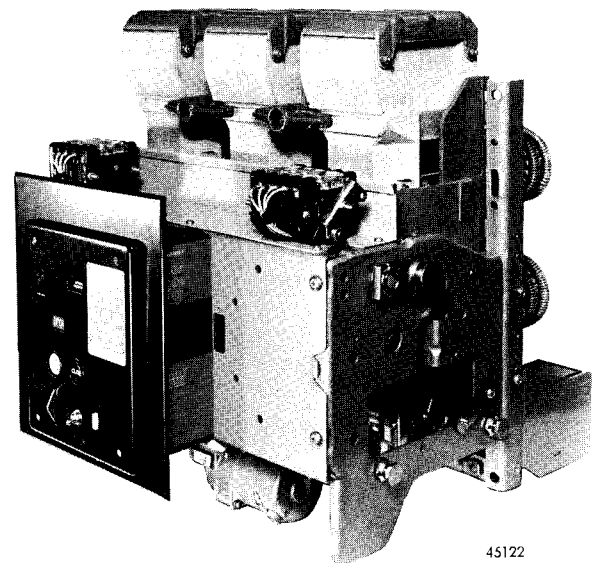
GENERAL

K-LINE circuit breakers have been developed for the protection of feeder circuits and for use as main circuit breakers where the interrupting requirements are within the ratings shown in Table 1. This modern line of low-voltage power circuit breakers offers a selection of either manually or motor-charged, spring-closing mechanisms, which provide positive quick-make operation. K-LINE circuit breakers also offer expanded-range direct-acting trip devices, reduced dimensions, and many other features which are particularly adaptable to general switchgear applications.



45115

Type K-3000 electrically-operated, stored-energy stationary-mounted circuit breaker



45122

Type K-2000 electrically-operated, stored-energy one-high removable element



POWER CIRCUIT BREAKERS -- LOW-VOLTAGE, 600 V

TABLE 1—RATINGS

A-C Volts	Frame Size Amperes	Asymmetrical Interrupting Rating With		Symmetrical Interrupting Rating With		Asymmetrical Close and Latch and 30 Cycle Short-Time Rating	Symmetrical Close and Latch and 30 Cycle Short-Time Rating	Asymmetrical Fault Current Limit 2-Step Cascade	Symmetrical Fault Current Limit 2-Step Cascade	Direct-Acting Trip Devices					Type of Operation Manual or Electrical
		Instantaneous Trip	Delayed Trip	Instantaneous Trip	Delayed Trip					Maximum Coil Rating	Minimum Pickup Setting With				
											Cascade or Instantaneous Trip	Delayed Trip			
												Minimum Band	Inter Band	Maximum Band	
208 and 240	225	30,000	15,000	14,000	15,000	14,000	60,000	50,000	225	20	72	72	120	M or E	
	600	50,000	25,000	22,000	25,000	22,000	100,000	85,000	600	120	120	120	200	M or E	
	1,600	75,000	60,000	65,000	50,000	60,000	120,000	100,000	1,600	400	240	240	400	M or E	
	2,000	100,000	65,000	85,000	55,000	65,000	150,000	130,000	2,000	400	240	240	400	M or E	
	3,000	100,000	75,000	85,000	65,000	75,000	150,000	130,000	3,000	1,600	1,600	1,600	1,600	M or E	
480	225	25,000	15,000	14,000	15,000	14,000	50,000	42,000	225	12	72	72	120	M or E	
	600	35,000	25,000	30,000	22,000	25,000	70,000	60,000	600	70	120	120	200	M or E	
	1,600	60,000	60,000	50,000	50,000	60,000	100,000	85,000	1,600	250	240	240	400	M or E	
	2,000	75,000	65,000	65,000	55,000	65,000	100,000	85,000	2,000	250	240	240	400	M or E	
	3,000	75,000	75,000	65,000	65,000	75,000	100,000	85,000	3,000	1,600	1,600	1,600	1,600	M or E	
600	225	15,000	15,000	14,000	14,000	15,000	30,000	25,000	225	12	72	72	120	M or E	
	600	25,000	25,000	22,000	22,000	25,000	50,000	42,000	600	20	120	120	200	M or E	
	1,600	50,000	50,000	42,000	42,000	50,000	100,000	85,000	1,600	120	240	240	400	M or E	
	2,000	65,000	65,000	55,000	55,000	65,000	100,000	85,000	2,000	250	240	240	400	M or E	
	3,000	75,000	75,000	65,000	65,000	75,000	100,000	85,000	3,000	1,600	1,600	1,600	1,600	M or E	

Notes:

See Table 2 for Direct-Acting Trip Device types available.

See Table 3 for complete listing of OD-3 trip calibrations available.

The asymmetrical ratings listed for 600 volts ac are applicable for d-c voltages up to 250 volts.

Direct-Acting Trip Device—nominal continuous coil ratings: 20, 40, 70, 125, 225, 400, 600, 800, 1600, 2000, 3000 and 4000 amperes. For 5000 or 6000 ampere breakers refer to factory.

TABLE 2—DUAL-MAGNETIC, DUAL-SELECTIVE AND INSTANTANEOUS OVERCURRENT-TRIP-DEVICE CHARACTERISTICS

Circuit Breaker	Trip Device Type	Characteristics			* Curve TD—
		Long-Time	Short-Time#	Instantaneous	
K-225 K-600 K-1600 K-2000	OD-3	50-125%		500-1500%	6693
	OD-4	80-160%	400-1000%		6694
	OD-5	80-160%	400-1000%	500-1500%	6695
	OD-6	80-160%		500-1500%	6695
	OD-7			500-1500%	None
	OD-8			80-250%	None

Circuit Breaker	Trip Device Type	Characteristics			* Curve TD—
		Long-Time	Short-Time#	Instantaneous	
K-3000 K-4000	OD-300	50-125%		500-1200%	6693
	OD-400	80-160%	400-1000%		6694
	OD-500	80-160%	400-1000%	500-1200%	6695
	OD-600	80-160%		500-1200%	6695
	OD-700			500-1200%	None
	OD-800			80-250%	None

* See Section 9.1.3, Pages 12, 13 and 14.

200-500% also available.

TABLE 3—TYPE OD-3 AND OD-300 DUAL-MAGNETIC OVERCURRENT-TRIP-DEVICE PICK-UP POINTS

Circuit Breaker	Maximum Continuous Coil Rating	Adjustable Long-Time Delay Pickup Points	Adjustable Instantaneous Pickup Points
	Amperes	Amperes	Amperes
K-225	20	12	75
		15	125
		18	200
		20	300
		25	
K-225 K-600	40	20	150
		25	250
		30	400
		40	600
		50	
K-225 K-600	70	40	250
		50	500
		60	750
		70	1100
		90	
K-225 K-600	125	70	450
		90	800
		100	1200
		125	1900
		160	
K-225 K-600 K-1600	225	120	750
		150	1500
		175	2400
		200	3400
		225	
K-600 K-1600 K-2000	400	250	1250
		300	2000
		350	4000
		400	6000
		500	

Circuit Breaker	Maximum Continuous Coil Rating	Adjustable Long-Time Delay Pickup Points	Adjustable Instantaneous Pickup Points
	Amperes	Amperes	Amperes
K-600	600	400	2500
		500	4000
		600	6000
		750	9000
K-1600 K-2000	800	400	2500
		500	5000
		600	8000
		800	12000
		1000	
K-1600 K-2000	1600	800	5000
		1000	10000
		1200	16000
		1600	24000
		2000	
K-2000	2000	1200	10000
		1600	15000
		1800	20000
		2000	30000
		2500	
K-3000	3000	1600	10000
		2000	20000
		2500	28000
		3000	36000
		3800	
K-4000	4000	2000	20000
		3000	30000
		3500	40000
		4000	48000
		5000	