SOLID STATE TRIP DEVICE

SPECIAL PURPOSE TYPE LSS-6 (LT, INST)

NOTE 1: The upper limit of the band represents the maximum time from the start of the overcurrent until interruption by the circuit breaker. The actual tripping time will be equal to or less than the upper limit of the band.

NOTE 2: The lower limit of the band defines resettable time delay. If, at the time defined by the lower limit of the band, current reduces to the long-time setting, the circuit breaker will not trip. The actual minimum tripping time will always be in excess of the lower limit of the band.

NOTE 3: Reset time of long-time trip device functions is 0.050 sec. maximum.

NOTE 4:

TRIP SYSTEM AMP RATING	RANGE SELECTOR AMPS	BREAKER TYPES
200	100, 200	LK8, LKE8, LKD8, LK16, LKE16, LKD16
800	400, 800	LK8, LKE8, LKD8, LK16, LKE16, LKD16
1600	800, 1600	LK16, LKE16, LKD16
2500	1250, 2500	LK25, LKE25
3000	1500, 3000	LK32, LKE32
3200	1600, 3200	LK32, LKE32
4000	2000, 4000	LK42, LKE42
4200	2100, 4200	LK42, LKE42

NOTE 5: All settings are determined by placement of plug into appropriate tap block on front of device. Range amps are determined by range selector switch on front of device.

NOTE 6: The long-time and instantaneous settings are independent functions and are based on the range selector amps. For example--Assume an LK8 circuit breaker is set at 200 Amps, long-time at 0.8 and instantaneous at 5 then long-time setting is 160A and instantaneous setting is 1000A.

NOTE 7: Factory settings (unless otherwise specified:)
Range Selector Amps: Minimum setting available
Long-time Setting : 1.0
Instantaneous Setting: 7.0
Time Bands :Minimum

NOTE 8: When ground function is added to Power Shield, refer to TD-9062 for time current curves. When separate Ground Shield function is used, refer to TCC-608015 and TCC-608016 for time-current curves.

NOTE 9: Always apply circuit breaker within its published short-circuit current ratings with appropriate long-time and instantaneous combinations.

NOTE 10: Curves represent single as well as three phase functions on 50/60 HZ systems and are based on a normal calibration temperature range of 10-40c.

NOTE 11: Refer to Bulletin 3.1.1-1 for coordination of fuses for LKD Circuit Breakers.

LONG-TIME SETTING ADJUSTABLE TO 0.6, 0.7, 0.8, 0.9 1.0 TIMES RANGE SELECTOR AMPS (SHOWN SET AT 1.0X)

LONG-TIME BAND UPPER LIMIT (SEE NOTE 1)

LONG-TIME BAND LOWER LIMIT (SEE NOTE 2)

LONG-TIME DELAY BAND

MAXIMUM

INTERMEDIATE

MINIMUM

INSTANTANEOUS SETTING ADJUSTABLE TO 3, 4, 5, 7, 12 TIMES RANGE SELECTOR AMPS (SHOWN SET AT 4X AND 12X)

MAXIMUM CIRCUIT BREAKER CLEARING TIME WITH INSTANTANEOUS TRIP

INSTANTANEOUS LOWER LIMIT (SEE NOTE 2)

TIME IN SECONDS

MULTIPLES OF RANGE SELECTOR AMPS

TIME-CURRENT CHARACTERISTIC CURVES Solid State Trip Device I-T-E type: LSS-6 Long-time and Instantaneous, Special Purpose for type LK, LKE and LKD Low Voltage Power Circuit Breakers.

Brown Boveri Electric, Inc.
Manufacturer of I-T-E Electrical Power Equipment

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