

## IEC Miniature Thermal Overload Relays

## Overview/Product Selection



## Bulletin 193-K — Miniature Bimetallic Overload Relays

- Standard motor protection for AC and DC motors
- Overload protection Trip Class 10A
- Auxiliary switch (1 N.O. and 1 N.C.)
- Phase loss sensitivity
- Manual/Auto reset button
- Test release
- Stop button
- Trip indicator

Bulletin 193-K bimetallic overload relays are designed for use with Bulletin 100-K contactors and Bulletin 104-K Reversing Contactors. These class 10A ambient temperature-compensated thermal overload relays include a differential mechanism for sensitivity to phase-loss conditions.

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## Conformity to Standards

IEC/EN 60947-1,-4-1,-5-1  
 UL 508  
 CSA 22.2. No. 14

## Approvals

CE marked  
 cULus listed (File No. E33916,  
 Guide No. NKCR)

## Miniature Bimetallic Overload Relays

Mounts to Contactor	Setting Range [A] **	Max. Current Rating Backup gG Fuse [A] IEC Coordination Type		Cat. No.
		Type 1	Type 2	
100-K05...100-K12	0.10...0.16	35	—	193-KA16
	0.16...0.25	35	—	193-KA25
	0.25...0.40	35	2	193-KA40
	0.35...0.50	35	2	193-KA50
	0.45...0.63	35	2	193-KA63
	0.55...0.80	35	4	193-KA80
	0.75...1.0	35	4	193-KB10
	0.9...1.3	35	6	193-KB13
	1.1...1.6	35	6	193-KB16
	1.4...2.0	35	10	193-KB20
	1.8...2.5	35	20	193-KB25
	2.3...3.2	35	20	193-KB32
	2.9...4.0	35	20	193-KB40
	3.5...4.8	35	20	193-KB48
4.5...6.3	35	20	193-KB63	
100-K09...100-K12	5.5...7.5	35	20	193-KB75
	7.2...10.0	35	20	193-KC10
100-K12	9.0...12.5	35	20	193-KC12

\* To select the setting range for use in Y-Δ Starters, multiply the rated operating current of the motor by a factor of 0.58.

\*\* For motors with Service Factor of 1.15 or greater, use motor nameplate full load current. For motors with service factor of 1.0, use 90% of the motor nameplate full load current.