



Bulletin 193-T1 — Bimetallic Overload Relays

- Overload protection trip class 10 / 10A
- Phase loss protection
- Ambient temperature compensation
- Auxiliary contacts (1 N.O. and 1 N.C.)
- Manual/automatic reset mode selectable
- Test function for auxiliary contacts
- Stop button
- Trip Indicator
- Optional remote reset solenoid and external reset accessories

The 193-T1 bimetal overload relays are ambient temperature compensated, ensuring that the tripping characteristic of the relay remains constant over an ambient temperature range of -20°C...+60°C. These class 10 / 10A thermal overload relays include a differential mechanism for high sensitivity to phase loss conditions and provide reliable motor protection in normal duty applications. In addition, they can be used to protect against overloads in DC-motor and variable frequency drive applications.

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Standards Compliance

IEC/EN 60497-1, -4-1, -5-1
 UL508
 CSA C22.2 No.14

Certifications

cULus (File No. E33916,
 Guide NKCR, NKCR7),
 CE marked

Thermal Overload Relays

For Use With*	Setting Range [A]*†	Max. Back-up fuse [A]			Cat. No.
		gL/gG		UL Class K5	
		50 kA, 690V AC		5 kA, 600V AC	
		IEC/EN 60947-4-1 Coordination		UL 508	
		Type 1	Type 2		
100-C09...100-C23	0.1...0.16	50	—	1	193-T1AA16
	0.16...0.25	50	—	1	193-T1AA25
	0.25...0.40	50	2	1	193-T1AA40
	0.35...0.50	50	2	2	193-T1AA50
	0.45...0.63	50	2	2	193-T1AA63
	0.55...0.80	50	4	3	193-T1AA80
	0.75...1.0	50	4	3	193-T1AB10
	0.90...1.3	50	6	4	193-T1AB13
	1.1...1.6	50	6	5	193-T1AB16
	1.4...2.0	50	10	8	193-T1AB20
	1.8...2.5	50	16	10	193-T1AB25
	2.3...3.2	50	16	12	193-T1AB32
	2.9...4.0	50	16	15	193-T1AB40
	3.5...4.8	50	16	15	193-T1AB48
	4.5...6.3	50	20	20	193-T1AB63
	5.5...7.5	50	25	25	193-T1AB75
100-C12...100-C23	7.2...10	50	25	35	193-T1AC10
	9.0...12.5	50	35	50	193-T1AC12
100-C16...100-C23	11.3...16	50	35	60	193-T1AC16
100-C16...100-C23	15...20	80	40	80	193-T1AC20
	17.5...21.5	80	50	80	193-T1AC21
100-C23	21...25	80	50	100	193-T1AC25
100-C30...100-C37	15...20	80	40	80	193-T1BC20
	17.5...21.5	80	50	80	193-T1BC21
	21...25	80	50	100	193-T1BC25
	24.5...30	100	63	100	193-T1BC30
	29...36	125	63	125	193-T1BC36
100-C37	33...38	125	63	150	193-T1BC38
100-C43	17...25	100	50	100	193-T1CC25
	24.5...36	125	80	125	193-T1CC36
	35...47	160	100	175	193-T1CC47
100-C60...100-C85	35...47	160	100	175	193-T1DC47
	45...60	200	125	250§	193-T1DC60
100-C72...100-C85	58...75	200	125	300§	193-T1DC75
100-C85	72...90	250	160	350§	193-T1DC90