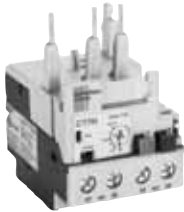
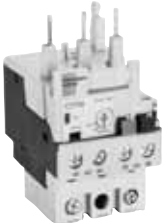

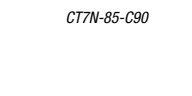



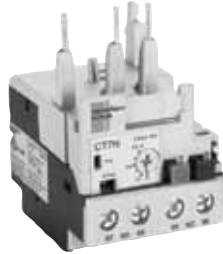
CT7N Bimetallic Overload Relays, Manual or Automatic Reset ①④

Overload Relay	Directly Mounts to Contactor...	Adjustment Range (A)②③	Trip Class 10	Price
			Catalog Number	
 CT7N-23-C16	CA7-9...CA7-23	0.10...0.16	CT7N-23-A16	82
		0.16...0.25	CT7N-23-A25	
		0.25...0.40	CT7N-23-A40	
		0.35...0.50	CT7N-23-A50	
		0.45...0.63	CT7N-23-A63	
		0.55...0.80	CT7N-23-A80	
		0.75...1.0	CT7N-23-B10	
		0.90...1.3	CT7N-23-B13	
		1.1...1.6	CT7N-23-B16	
		1.4...2.0	CT7N-23-B20	
		1.8...2.5	CT7N-23-B25	
		2.3...3.2	CT7N-23-B32	
		2.9...4.0	CT7N-23-B40	
		3.5...4.8	CT7N-23-B48	
		4.5...6.3	CT7N-23-B63	
		 CT7N-37-C30	CA7-30...CA7-37	
7.2...10	CT7N-23-C10			
9.0...12.5	CT7N-23-C12			
11.3...16	CT7N-23-C16			
15...20	CT7N-23-C20			
17.5...21.5	CT7N-23-C21			
21...25	CT7N-23-C25			
15...20	CT7N-37-C20			
17.5...21.5	CT7N-37-C21			
21...25	CT7N-37-C25			
 CT7N-43-C36	CA7-43	24.5...30	CT7N-37-C30	131
		29...36	CT7N-37-C36	
		33...38	CT7N-37-C38	
 CT7N-85-C90	CA7-60...CA7-85	17...25	CT7N-43-C25	149
		24.5...36	CT7N-43-C36	
		35...47	CT7N-43-C47	
		35...47	CT7N-85-C47	
		45...60	CT7N-85-C60	
		58...75	CT7N-85-C75	
		72...90	CT7N-85-C90	177

Overload Relay	Separate Mount...	Adjustment Range (A)②③	Trip Class 10	Price
			Catalog Number	
	Separate mounting required (Panel or DIN-Rail mounted device)	35...47	CT7N-85-C47P	168
		45...60	CT7N-85-C60P	172
		58...75	CT7N-85-C75P	172
		72...90	CT7N-85-C90P	257

① CT7N Bimetallic Overload Relays should not be used with conventional DC contactors. Use electronic DC version (CA7-9E...43E).
 ② To select the setting range for use in Wye-Delta Starters, multiply the rated operating current of the motor by a factor of 0.58.

③ 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.
 ④ Under phase loss condition, this 3-phase two slider bar tripping mechanism will trip in approximately 45 seconds.



Directly Mounts to Contactor...	CT7N			CT7			CT7K		
	Adjustment Range (A)	Catalog Number	Code	Adjustment Range (A)	Catalog Number	Code	Adjustment Range (A)	Catalog Number	Code
CA7-9...CA7-23	0.10...0.16	CT7N-23-A16	AA16	0.1...0.16	CT7-24-0.16	TA	0.10...0.15	CT7K-17-0.15	TKA
	0.16...0.25	CT7N-23-A25	AA25	0.16...0.24	CT7-24-0.24	TB	0.15...0.23	CT7K-17-0.23	TKB
	0.25...0.40	CT7N-23-A40	AA40	0.24...0.4	CT7-24-0.4	TC	0.23...0.35	CT7K-17-0.35	TKC
	0.35...0.50	CT7N-23-A50	AA50	0.4...0.6	CT7-24-0.6	TD	0.35...0.55	CT7K-17-0.55	TKD
	0.45...0.63	CT7N-23-A63	AA63				0.55...0.8	CT7K-17-0.80	TKE
	0.55...0.80	CT7N-23-A80	AA80	0.6...1.0	CT7-24-1.0	TE	0.8...1.2	CT7K-17-1.2	TKF
	0.75...1.0	CT7N-23-B10	AB10	1.0...1.6	CT7-24-1.6	TF			
	0.90...1.3	CT7N-23-B13	AB13				1.2...1.8	CT7K-17-2.7	TKG
	1.1...1.6	CT7N-23-B16	AB16	1.6...2.4	CT7-24-2.4	TG	1.8...2.7	CT7K-17-2.7	TKH
	1.4...2.0	CT7N-23-B20	AB20				2.7...4	CT7K-17-4.0	TKJ
	1.8...2.5	CT7N-23-B25	AB25	2.4...4	CT7-24-4	TH	4...6	CT7K-17-6.0	TKK
	2.3...3.2	CT7N-23-B32	AB32				6...9	CT7K-17-9.0	TKL
	2.9...4.0	CT7N-23-B40	AB40	4...6	CT7-24-6	TJ	9...12.5	CT7K-17-12.5	TKM
	3.5...4.8	CT7N-23-B48	AB48						
	4.5...6.3	CT7N-23-B63	AB63	6...10	CT7-24-10	TK	12.5...17.5	CT7K-17-17.5	TKN
	5.5...7.5	CT7N-23-B75	AB75				10...16	CT7-24-16	TL
7.2...10	CT7N-23-C10	AC10	15...20	CT7N-23-C20	AC20	16...24			
CA7-12...CA7-23	9.0...12.5	CT7N-23-C12	AC12	16...24	CT7-24-24		TM		
CA7-16...CA7-23	11.3...16	CT7N-23-C16	AC16			18...30		CT7-45-30	TN
	15...20	CT7N-23-C20	AC20						
	17.5...21.5	CT7N-23-C21	AC21	30...45	CT7-45-45	TP			
21...25	CT7N-23-C25	AC25							
CA7-30...CA7-37	15...20	CT7N-37-C20	BC20	18...30	CT7-75-30	TQ			
	17.5...21.5	CT7N-37-C21	BC21						
	21...25	CT7N-37-C25	BC25	30...45	CT7-75-45	TR			
24.5...30	CT7N-37-C30	BC30							
CA7-37	29...36	CT7N-37-C36	BC36	18...30	CT7-75-30	TQ			
	33...38	CT7N-37-C38	BC38						
CA7-43	17...25	CT7N-43-C25	CC25	30...45	CT7-75-45	TR			
	24.5...36	CT7N-43-C36	CC36						
	35...47	CT7N-43-C47	CC47	45...60	CT7-75-60	TS			
CA7-60...CA7-85	35...47	CT7N-85-C47	DC47						
	45...60	CT7N-85-C60	DC60	60...75	CT7-75-75	TT			
CA7-85	58...75	CT7N-85-C75	DC75						
	72...90	CT7N-85-C90	DC90	70...90	CT7-100-90 ①	TU			

① CT7N can be directly mounted to CA7-85. CT7 required separate mount.

Short Circuit Coordination

For Use With...	Catalog Number	Adjustment Range (A)	Max. Back-up fuse [A]		
			gL/gG 50 kA, 690V AC IEC/EN 60947-4-1 Coordination		UL Class K5 5 kA, 600V AC
			Type 1	Type 2	UL 508
CA7-9...CA7-23	CT7N-23-A16	0.10...0.16	50	~	1
	CT7N-23-A25	0.16...0.25		~	1
	CT7N-23-A40	0.25...0.40		2	1
	CT7N-23-A50	0.35...0.50		2	2
	CT7N-23-A63	0.45...0.63		2	2
	CT7N-23-A80	0.55...0.80		4	3
	CT7N-23-B10	0.75...1.0		4	3
	CT7N-23-B13	0.90...1.3		6	4
	CT7N-23-B16	1.1...1.6		6	5
	CT7N-23-B20	1.4...2.0		1	8
	CT7N-23-B25	1.8...2.5		16	10
	CT7N-23-B32	2.3...3.2		16	12
	CT7N-23-B40	2.9...4.0		16	15
	CT7N-23-B48	3.5...4.8		16	15
	CT7N-23-B63	4.5...6.3		20	20
	CT7N-23-B75	5.5...7.5		25	25
	CT7N-23-C10	7.2...10		25	35
	CT7N-23-C12	9.0...12.5		35	50
CT7N-23-C16	11.3...16	35	60		
CT7N-23-C20	15...20	80	40	80	
CT7N-23-C21	17.5...21.5		50	80	
CT7N-23-C25	21...25		50	100	
CA7-30...CA7-37	CT7N-37-C20	15...20	80	40	80
	CT7N-37-C21	17.5...21.5		50	80
	CT7N-37-C25	21...25		50	100
	CT7N-37-C30	24.5...30	100	63	100
	CT7N-37-C36	29...36	125	63	125
CT7N-37-C38	33...38	63		150	
CA7-43	CT7N-43-C25	17...25	100	50	100
	CT7N-43-C36	24.5...36	125	80	125
	CT7N-43-C47	35...47	160	100	175
CA7-60...CA7-85	CT7N-85-C47	35...47	160	100	175
	CT7N-85-C60	45...60	200	125	250 ❶
	CT7N-85-C75	58...75	200	125	300 ❶
	CT7N-85-C90	72...90	250	160	350 ❶
Separate mounting required (Panel-mounted device)	CT7N-85-C47P	35...47	160	100	175 ❷
	CT7N-85-C60P	45...60	200	125	250 ❶❷
	CT7N-85-C75P	58...75	200	125	300 ❶❷
	CT7N-85-C90P	72...90	250	160	350 ❶❷

❶ Max. Back-up fuse [A], UL Class K5, 10 kA, 600V AC

❷ Only in combination with CA7 Contactors.