

Mini contactors CTX³

6 to 16 A industrial contactors



Thermal relays and accessories

for CTX³ mini contactors



4 170 00



4 170 01



4 170 88



4 171 55

Dimensions p. 181

Dimensions p. 181
Tripping curves [see e-catalogue](#)

Pack	Cat. Nos		3-pole mini contactors		
	Integrated auxiliary contact		With integrated auxiliary contact Power terminals: screw terminals		
	1 NO	1 NC	6 A (AC3)		
1	4 170 00	4 170 10	3-phase motor 400/415 V	Control Voltage	
1	4 170 01	4 170 11	2.2 kW	24 V~	
1	4 170 04	4 170 14	2.2 kW	24 V=	
1	4 170 06	4 170 16	2.2 kW	110 V~	
1	4 170 09	4 170 19	2.2 kW	230 V~	
1			2.2 kW	415 V~	
			9 A (AC3)		
1	4 170 20	4 170 30	4 kW	24 V~	
1	4 170 21	4 170 31	4 kW	24 V=	
1	4 170 24	4 170 34	4 kW	110 V~	
1	4 170 26	4 170 36	4 kW	230 V~	
1	4 170 29	4 170 39	4 kW	415 V~	
			12 A (AC3)		
1	4 170 40	4 170 50	5.5 kW	24 V~	
1	4 170 41	4 170 51	5.5 kW	24 V=	
1	4 170 44	4 170 54	5.5 kW	110 V~	
1	4 170 46	4 170 56	5.5 kW	230 V~	
1	4 170 49	4 170 59	5.5 kW	415 V~	
			16 A (AC3)		
1	4 170 60	4 170 70	7.5 kW	24 V~	
1	4 170 61	4 170 71	7.5 kW	24 V=	
1	4 170 64	4 170 74	7.5 kW	110 V~	
1	4 170 66	4 170 76	7.5 kW	230 V~	
1	4 170 69	4 170 79	7.5 kW	415 V~	
			4-pole mini contactors		
			Without integrated auxiliary contact Power terminals: screw terminals		
			20 A		
			Max. operating current AC 1	Max. operating current AC 3	Control Voltage
1	4 171 40		20 A	16 A	24 V~
1	4 171 41		20 A	16 A	24 V=
1	4 171 44		20 A	16 A	110 V~
1	4 171 46		20 A	16 A	230 V~
1	4 171 49		20 A	16 A	415 V~

Pack	Cat. Nos	Thermal overload relays for 3-pole mini contactors	
		Class 10A Integrated auxiliary contacts 1 NO + 1 NC	
1	4 170 80	0.16 A	
1	4 170 81	0.25 A	
1	4 170 82	0.40 A	
1	4 170 83	0.63 A	
1	4 170 84	1 A	
1	4 170 85	1.6 A	
1	4 170 86	2.5 A	
1	4 170 87	4 A	
1	4 170 88	6 A	
1	4 170 89	8 A	
1	4 170 90	9 A	
1	4 170 91	10 A	
1	4 170 92	13 A	
1	4 170 93	16 A	

Pack	Cat. Nos	Add on auxiliary blocks for mini contactors	
		Ith : 10 A	
		Front mounting	
15	4 171 50	1 NO + 1 NC	
15	4 171 51	2 NO	
15	4 171 52	2 NC	
15	4 171 53	4 NO	
15	4 171 54	3 NO + 1 NC	
15	4 171 55	2 NO + 2 NC	
15	4 171 56	1 NO + 3 NC	
15	4 171 57	4 NC	
		Side mounting	
20	4 171 58	1 NO	
20	4 171 59	1 NC	

Pack	Cat. Nos	Interlock Unit
5	4 171 60	Mechanical interlock for mini contactors

CTX³ control relays
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Spare coils
please consult us

Mini contactors CTX³

technical characteristics and dimensions

Environmental conditions

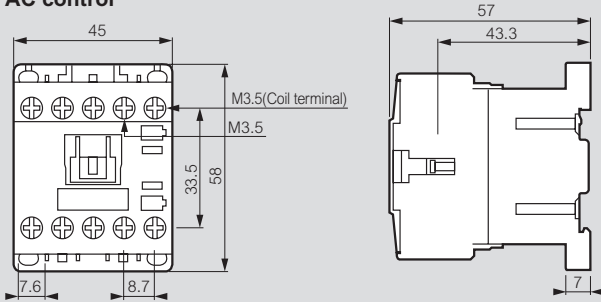
- Storage temperature: -30 °C to +65 °C
- Operating temperature: -5 °C to +40 °C
- Operating altitude: 2000 m
- Protection degree: IP 20
- Shock resistance: 5 G
- Vibration resistance (10-55 Hz): 2 G

Possible combinations of auxiliary blocks per contactor

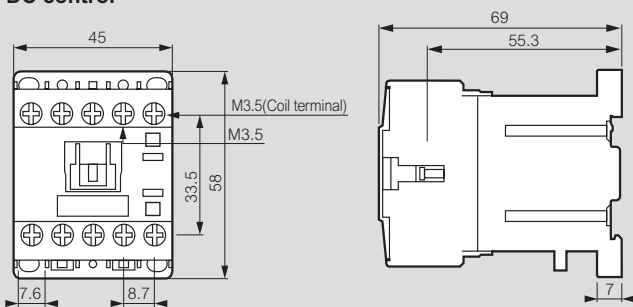
Auxiliary contact block	Maximum number of blocks		
	Side mounting (1 contact)	Front mounting (2 contacts)	Front mounting (4 contacts)
CTX ³ mini and control relay Control voltage : ~	2	0	1
	4	1	0
	6	0	0
CTX ³ mini and control relay Control voltage : =	2	0	0
	0	1	0

Mini contactors 3P and 4P and control relays

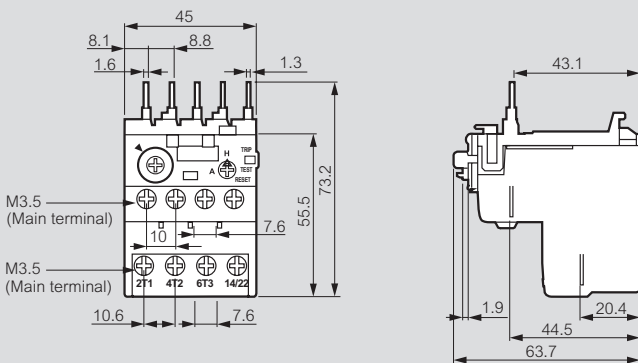
AC control



DC control

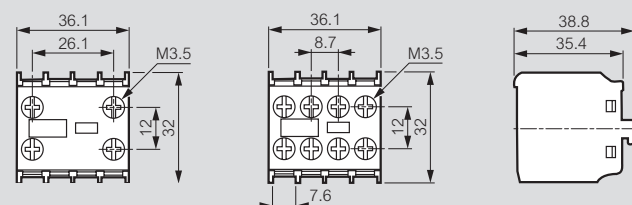


Thermal overload relays for mini contactors

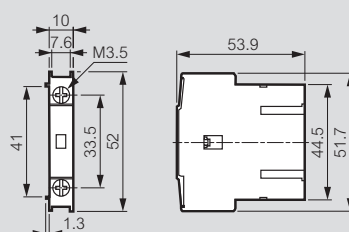


Auxiliary contacts

Front mounting

















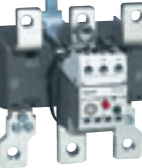



Side mounting



3-pole contactors CTX³ and thermal overload relays RTX³

technical characteristics

																													
Contactor		CTX ³ mini	CTX ³ 22	CTX ³ 40	CTX ³ 65	CTX ³ 100	CTX ³ 150	CTX ³ 225	CTX ³ 400	CTX ³ 800																			
Size		-	2	3	4	5	6	7	8	9																			
Terminals type		screw	screw	screw	screw or cage	screw or cage	screw or cage	screw	screw	screw																			
Rated operational voltage, U _e		690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V	690 V																			
Rated insulation voltage, U _i		690 V	690 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V																			
Rated frequency		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz																			
Rated impulse withstand voltage, U _{imp}		6 kV	6 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV																			
Max. operating rate in operation cycle per hour (AC-3)		1800	1800	1800	1800	1800	1200	1200	1200	1200																			
Durability in millions of operations	Mechanical	12	15	12	12	12	5	5	5	2.5																			
	Electrical	1	2.5	2	2	2	1	1	1	0.5																			
Current and power	Type	6 A	9 A	12 A	16 A	9 A	12 A	18 A	22 A	32 A	40 A	50 A	65 A	75 A	85 A	100 A	130 A	150 A	185 A	225 A	265 A	330 A	400 A	500 A	630 A	800 A			
	AC-1	Thermal current (A)	20	20	20	20	25	25	40	40	50	60	70	100	110	135	160	160	210	230	275	300	350	450	580	660	900		
		200/240 V (kW)	1.5	2.2	3	4	2.5	3.5	4.5	5.5	7.5	11	15	18.5	22	25	30	37	45	55	75	80	90	125	147	190	220		
	AC-3	(A)	7	9	12	15	11	13	18	22	32	40	55	65	75	85	105	130	150	185	225	265	330	400	500	630	800		
		380/440 V (kW)	2.2	4	5.5	7.5	4	5.5	7.5	11	15	18.5	22	30	37	45	55	60	75	90	132	147	160	200	265	330	440		
	500/550 V (kW)	(A)	3	3.7	4	5.5	4	7.5	7.5	15	18.5	22	30	33	37	45	55	60	70	110	132	147	160	225	265	330	500		
		690 V (kW)	3	4	4	4	4	7.5	7.5	15	18.5	22	30	33	37	45	55	55	55	110	140	160	200	250	300	400	500		
	1000 V (kW)	(A)	4	5	5	5	5	9	9	18	20	23	28	35	42	45	65	60	60	120	150	185	225	300	380	420	630		
		(A)	-	-	-	-	-	-	-	-	22	22	30	30	37	27	37	75	75	132	132	147	147	147	220	220	220		
	UL rating 50/60 Hz	Continuous current (A)		20	20	20	20	25	25	40	40	50	60	70	100	110	135	160	160	210	230	275	300	350	450	580	660	900	
		Single phase	110/220 V (HP)	1/2	1/2	1	-	0.5	0.75	1	2	2	3	3	5	5	7.5	10	10	15	15	15	15	-	-	-	-	-	-
			220/240 V (HP)	1	1.5	2	-	1.5	2	3	3	5	7.5	10	15	15	15	20	20	25	30	40	40	-	-	-	-	-	
Three phase		200/208 V (HP)	-	-	-	-	2	3	5	7.5	7.5	15	20	25	25	30	30	40	40	60	60	75	100	125	150	200	200		
		220/240 V (HP)	1.5	3	3	-	3	5	7.5	10	10	15	25	30	30	40	40	40	50	60	75	100	125	150	200	250	300		
		440/480 V (HP)	3	5	7.5	-	5	7.5	10	15	20	30	40	50	50	60	75	75	100	125	150	200	250	300	400	500	600		
		550/600 V (HP)	3	5	7.5	-	7.5	10	15	20	25	30	50	60	60	75	75	75	75	125	150	200	250	300	400	500	600		
NEMA size		00	00	00	0	00	00	0	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	7			
Weight and size	AC control	Weight (kg)	0.17				0.34				0.4		0.9			1.6			2.4		5.4		9.2			22.4			
		Size (W x H x D) (mm)	45 x 58 x 57				45 x 73.5 x 87.4				45 x 83 x 90		55 x 106 x 119			70 x 140 x 135.8			95 x 158 x 130.3		138 x 203 x 185.1		163 x 243 x 204.4			285 x 312 x 245.3			
	DC control	Weight (kg)	0.23				0.41				0.6		1.2			2.6			2.4		5.4		9.2			22.4			
		Size (W x H x D) (mm)	45 x 58 x 69				45 x 73.5 x 103.6				45 x 83 x 117.1		55 x 106 x 146.4			70 x 140 x 172.3			95 x 158 x 130.3		138 x 203 x 185.1		163 x 243 x 204.4			285 x 312 x 245.3			
Integrated auxiliary contacts		1 NO or 1 NC				1 NO + 1 NC				2 NO + 2 NC		2 NO + 2 NC			2 NO + 2 NC			2 NO + 2 NC		2 NO + 2 NC		2 NO + 2 NC			2 NO + 2 NC				
Add on auxiliary block	Side mounting	Yes				Yes				Yes		Yes			Yes			Yes		Yes		Yes			Yes				
	Front mounting	Yes				Yes				Yes		Yes			Yes			Yes		No		No			No				
Thermal overload relay		RTX ³ mini	RTX ³ 40	RTX ³ 40	RTX ³ 65	RTX ³ 100	RTX ³ 150	RTX ³ 225	RTX ³ 400	RTX ³ 800																			
																													
Terminals type	Standard RTX ³	-				screw		screw		screw			screw			screw		screw		screw			screw						
	Differential RTX ³	screw				screw		screw		cage			cage			screw		screw		screw			screw						
Rated operational voltage, U _e		690 V				690 V				690 V		690 V			690 V			690 V		690 V		690 V			690 V				
Rated insulation voltage, U _i		690 V				690 V				690 V		690 V			690 V			690 V		690 V		690 V			690 V				
Rated impulse withstand voltage, U _{imp}		6 kV				6 kV				6 kV		6 kV			6 kV			6 kV		6 kV		6 kV			6 kV				
Trip class		10 A				10 A				10 A		10 A			10 A			10 A		10 A		10 A			10 A				
Setting		0.1 to 16 A				0.1 to 40 A				0.1 to 40 A		9 to 65 A			18 to 100 A			45 to 150 A		65 to 240 A		85 to 400 A			200 to 800 A				
Weight and size	Weight (kg)	0.1				0.17				0.17		0.31/0.33			0.48/0.5			0.67		2.5		2.6			11.5				
	Size (W x H x D) (mm)	45 x 73 x 63				45 x 75 x 90				45 x 75 x 90		55 x 81 x 100			70 x 97 x 110			95 x 109 x 113		147 x 141 x 184		151 x 171 x 198			360 x 530 x 212				