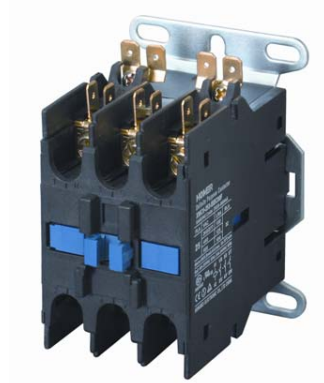


XMC0 Series

Definite Purpose Contactors

Description

HOMER XMC0 series high performance definite purpose contactors (1-Pole, 1-Pole+1Shunt, 1-Pole+1NC, 1-Pole+1NO, 2-Pole, 3-Pole,3-Pole+1NC and 3-Pole+1NO ,from 12A to 90A) are ideal for (HVAC) air conditioning, refrigeration, heating, data processing, welding, elevators, hoists & cranes, washing machine, lighting, pools & spas and food service equipment. **XMC0** series definite purpose contactors meet ARI 780 and UL508 standard



Features

1. Unique structure of amortization system eliminates contact bounce.
2. No tools required for snap-on accessories require that make modification quick and easy.
3. Various terminal options for specific application needs.
4. Easy to change coil.
5. Universal mounting plate allows easy replacement for other brands.
6. Heavy duty Silver Metal Oxide composition contacts ensure long electrical endurance.
7. Coils are Class F (155°C) temperature insulated with wide range of voltage and 50/60Hz ratings.
8. Double E Magnet Assembly provides optimal performance with reduced power consumption.
9. Effective dustproof structure.
10. UL, TÜV, CCC, CE approved.

Type model nomenclature - Ordering Information

XM **C** **0** - □ □ [■] □ □ □ □ □ □ □ □

1 2 3 4 5 6 7 8 9 10 11 12

Number digit 1: Manufacturer's code

XM – Xiamen Hongmei Electronic Co., Ltd.

Number digit 2: Product Type

C – Contactor

Number digit 3: Design Sequence Number – 0

Number digit 4: Full Load Amperes (FLA) – 12, 18, 20, 25, 32, 40, 50, 63, 75 or 90

Number digit 5: Number of Poles – 1, 2, 2R, 3, 3A, 3B, 3R, 5, 6, 7, 8 or 9

Number digit 5	1	2*	2R	3	3A	3B
Number of poles	1-pole+1shunt	2-pole	2-pole (1a1b)	3-pole	2-pole (3pl frame)	3-pole (small frame)
Number digit 5	3R	5	6	7	8	9
Number of poles	3-pole (2a1b)	1-pole+1NC	1-pole+1NO	1-pole	3-pole+1NC (small frame)	3-pole+1NO (small frame)

Number digit 6: Coil Voltage – D, E, F, I, L, N, U

Number digit 6		D	E	F	I	J*	L	N	U
Coil voltage	50Hz	12V	24V	110-120V	208-220V	220V	--	380-415V	550-600V
	60Hz	12V	24V	110-120V	208-240V	--	277V	440-480V	550-600V

Number digit 7: Mounting plate – A, B

- A – plastic base
- B – metal plate

Number digit 8: Cover –A, B

- A – long cover
- B – short cover

Number digit 9: Terminal –A, B, C, D, E, F

- A – screw w/quick connect
- B – sems clamp w/quick connect
- C – slotted & hex head washer w/ quick connect
- D – box lug w/ quick connect
- E –box lug w/quick connect (Line)
 - slotted&hex head washer w/quick connect (Load)
- F –slotted&hex head washer w/quick connect (Line)
 - box lug w/quick connect (Load)

Number digit 10: Auxiliary contact blocks (for 3-pole) (Left & Right) side– **0, 1, 3, 4, 5, 6, 1P, 3P, 4P, 5P, 6P**

Auxiliary contact block at left	Auxiliary contact block at right
0- None (Standard type) 1- 1NC+1NO, pressure plate screws w/ quick connect 3- 1NC, pressure plate screws w/ quick connect 4- 1NO, pressure plate screws w/ quick connect 5- 2NC, pressure plate screws w/ quick connect 6- 2NO, pressure plate screws w/ quick connect 1P- 1NC+1NO, pressure plate screws 3P- 1NC, pressure plate screws 4P- 1NO, pressure plate screws 5P- 2NC, pressure plate screws 6P- 2NO, pressure plate screws	
For example: 34P- 1NC pressure plate screws w/ quick connect at left and 1NO pressure plate screws at right 56- 2NC pressure plate screws w/ quick connect at left and 2NO pressure plate screws w/ quick connect at right	

Number digit 11: Coil terminals– **Blank, F**

Blank – dual terminals without screws in 1-and 2- pole models and single terminals with screws in 3-pole models.

F- dual terminals with screws in 3- pole models.

Number digit 12: Power quick terminals– **Blank, G, D, Q**

Blank – quad terminals in 1-and 2- pole models.

dual terminals in 3-pole models.

G- without any terminals

D- dual terminals in 1-and 2- pole models

Q- dual terminals at the side near coil terminal and quad terminals at the other side in 3-pole models.

****If this will be the final digit(s) in selection, omit from model nomenclature.***

Characteristics

Rated insulation voltage		V	690
Conforming to standard			IEC60947-4-1, GB14048.4, EN60947, ARI780
Approvals			CCC UL CSA TÜV SEMKO EK CE
Protective treatment			Total climate tropical use "TH"
Operating position			Vertical $\pm 5^\circ$
Operating altitude		m	2000
Ambient temperature	operation	°C	-25°C ~ +70°C
	storage	°C	-40°C ~ +70°C
Relative humidity			95% at 55°C
Pollution degree			3
Shock resistance 1/2 sine wave=11 ms	contactor open	g	6
	contactor closed	g	15
Vibration resistance 5 to 300 Hz	contactor open	g	2
	contactor closed	g	4

Performance

XMCO—											
Poles		1	2	3	3A	3B	5	6	7	8	9
Rated insulation voltage	V	690									
Rated operating voltage	V	480/277(60Hz) or 400/240(50Hz)600/345(60Hz)									
Full load ampere (FLA)	A	12	18	25	32	40	50	63	75	90	
Resistive load ampere (RLA)	A	20	25	35	40	50	63	75	95	120	
Making capacity (230V $\cos\phi 0.45$)	A	12×FLA									
Breaking capacity (230V $\cos\phi 0.45$)	A	10×FLA									
Switching frequency	op/h	360									
Electrical endurance	cycle	200,000									
Mechanical endurance	cycle	3,000,000									

Pole Characteristics

Full Load Amps	Resistive Amps Per Pole	Locked Rotor amps			Horsepower ratings			Poles	Catalog Number
		230 /277V	480V	600V	230V 1 Phase	480V 3 Phase	600V 3 Phase		
12	20	72	60	48	1.5	3	5	3P	XMC0 – 123
								3P+1NC	XMC0 – 128
								3P+1NO	XMC0 – 129
18	25	108	90	72	2	5	7.5	3P	XMC0 – 183
								3P+1NC	XMC0 – 188
								3P+1NO	XMC0 – 189
25	35	150	125	100	3	7.5	10	1P+Shunt	XMC0 – 251
								2P	XMC0 – 252
								2P(1a1b)	XMC0 – 252R
								3P(at 40A frame)	XMC0 – 253
								2P (at 3P)	XMC0 – 253A
								3P(at 25A frame)	XMC0 – 253B
								3P(2a1b)	XMC0 – 253R
								1P+1NC	XMC0 – 255
								1P+1NO	XMC0 – 256
								1P	XMC0 – 257
								3P+1NC	XMC0 – 258
								3P+1NO	XMC0 – 259
32	40	180	150	120	3	10	15	1P+Shunt	XMC0 – 321
								2P	XMC0 – 322
								2P(1a1b)	XMC0 – 322R
								3P	XMC0 – 323
								2P (at 3P)	XMC0 – 323A
								3P(2a1b)	XMC0 – 323R
								1P+1NC	XMC0 – 325
								1P+1NO	XMC0 – 326
1P	XMC0 – 327								
40	50	240	200	160	5	15	20	1P+Shunt	XMC0 – 401
								2P	XMC0 – 402
								2P(1a1b)	XMC0 – 402R
								3P	XMC0 – 403
								2P (at 3P)	XMC0 – 403A
								3P(2a1b)	XMC0 – 403R
								1P+1NC	XMC0 – 405
								1P+1NO	XMC0 – 406
1P	XMC0 – 407								
50	63	300	250	200	5	20	25	3P	XMC0 – 503
								2P (at 3P)	XMC0 – 503A
63	75	360	300	240	7.5	25	30	3P	XMC0 – 633
								2P (at 3P)	XMC0 – 633A
75	95	450	375	300	15	40	50	3P	XMC0 – 753
								2P (at 3P)	XMC0 – 753A
90	120	540	450	360	15	50	60	3P	XMC0 – 903
								2P (at 3P)	XMC0 – 903A

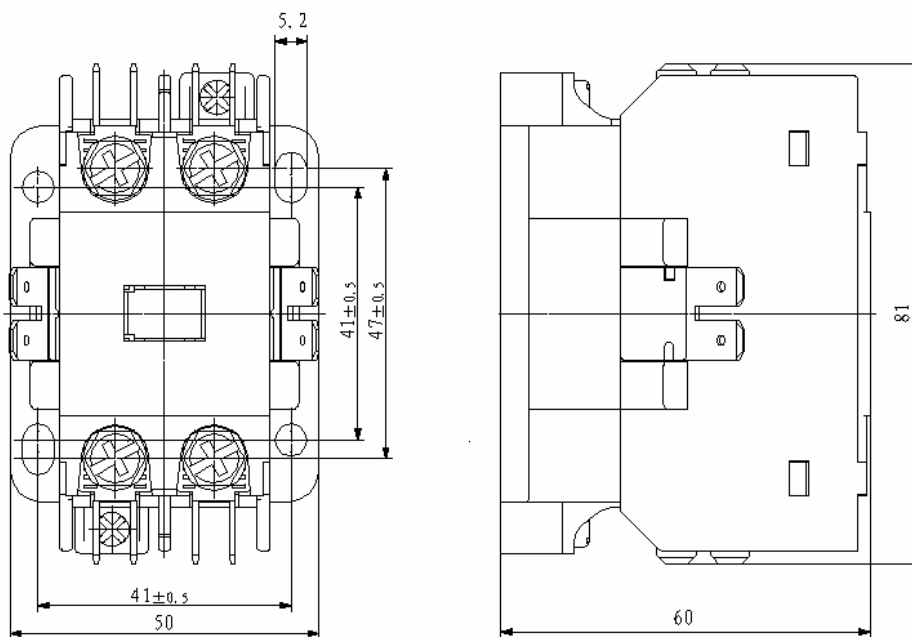
Auxiliary contacts block characteristics

Conventional thermal current (A)		10
Rated insulation voltage (V)		690
Rated operational current (A)	A600(AC-15) 230/380V	3/1.9
	N600(DC-13) 110/230V	2.2/1.1

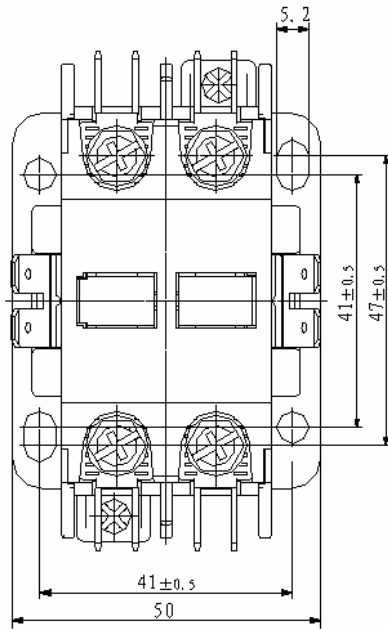
Coil characteristics

Part number	Inrushed VA	Sealed VA	Sealed Watts	Voltage	
				Pick-up	Drop-out
XMC0-□1/5/6/7	40	7.5	2.5-3.5	≤0.8Us	≥0.2Us
XMC0-□2	45	8	2.5-4		
XMC0-□3/3A/3R	90	16	3.5-5		
XMC0-□3/3B/8/9	90	16	3.5-5		
XMC0-503/633	145	20	5-7		
XMC0-753/903	235	32	10-12		

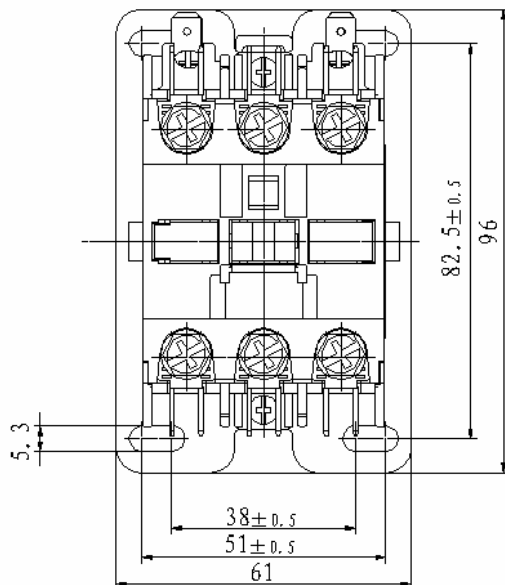
Dimensions



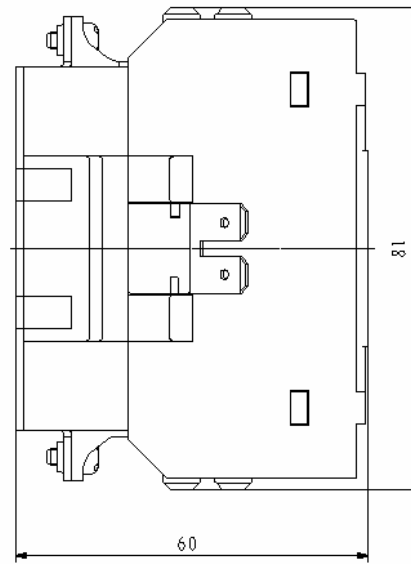
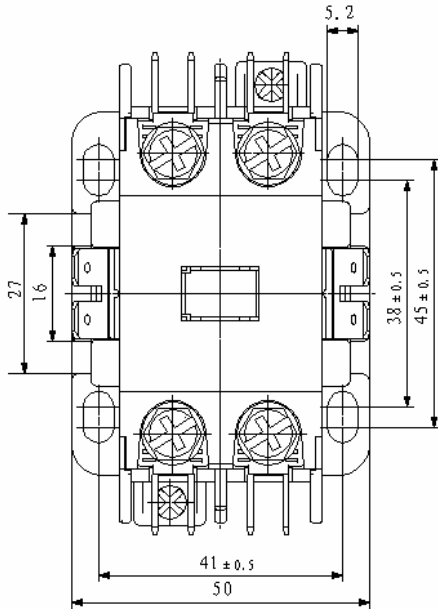
1-pole/1-pole+shunt/1p+1NC/1pole+1NO (plastic base, 25-40A)



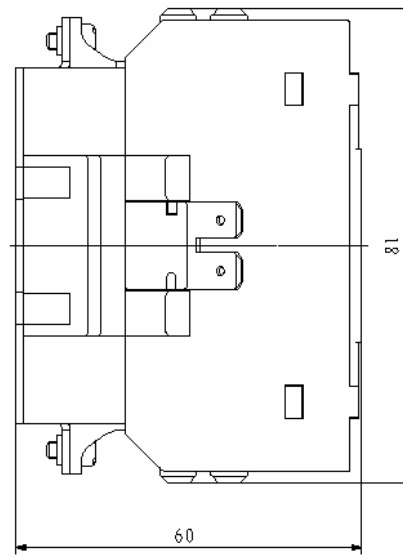
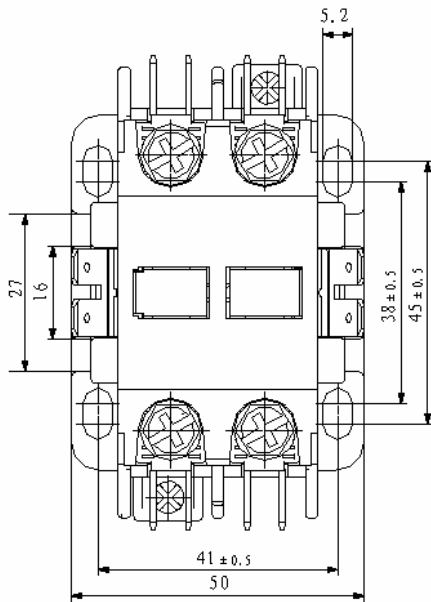
2-pole compact (plastic base, 25-40A)



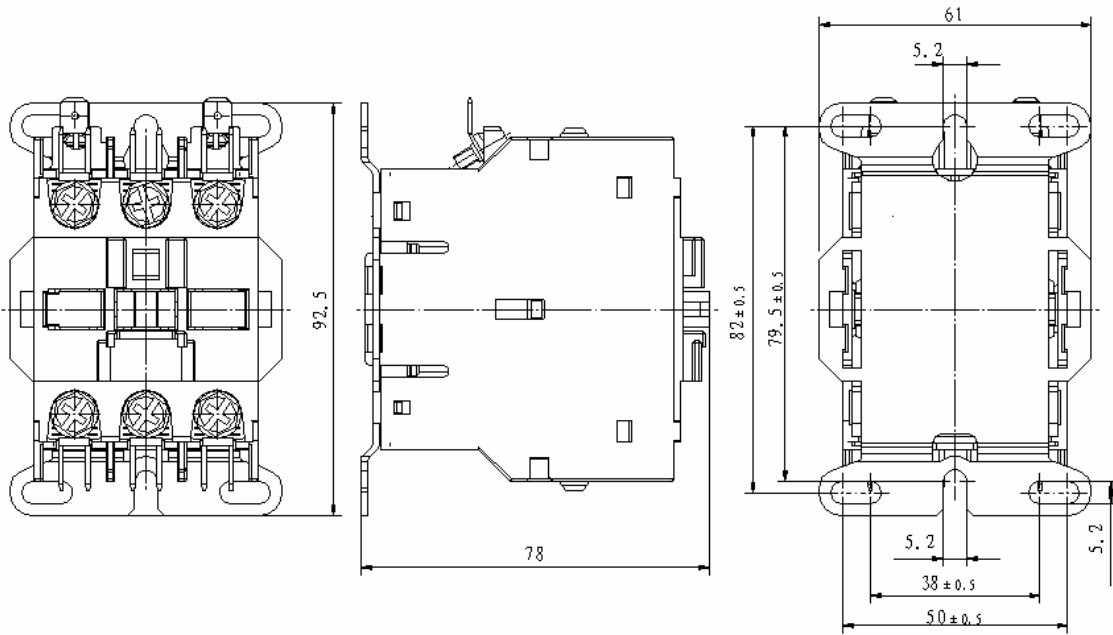
3-pole (plastic base, 25-40A)



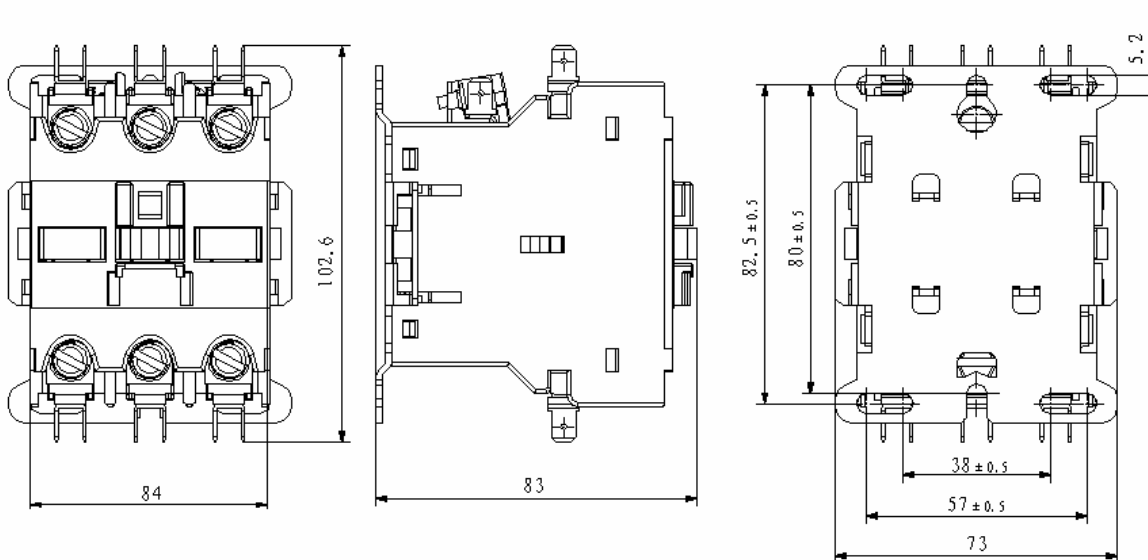
1-pole/1-pole+shunt/1p+1NC/1pole+1NO (metal base, 25-40A)



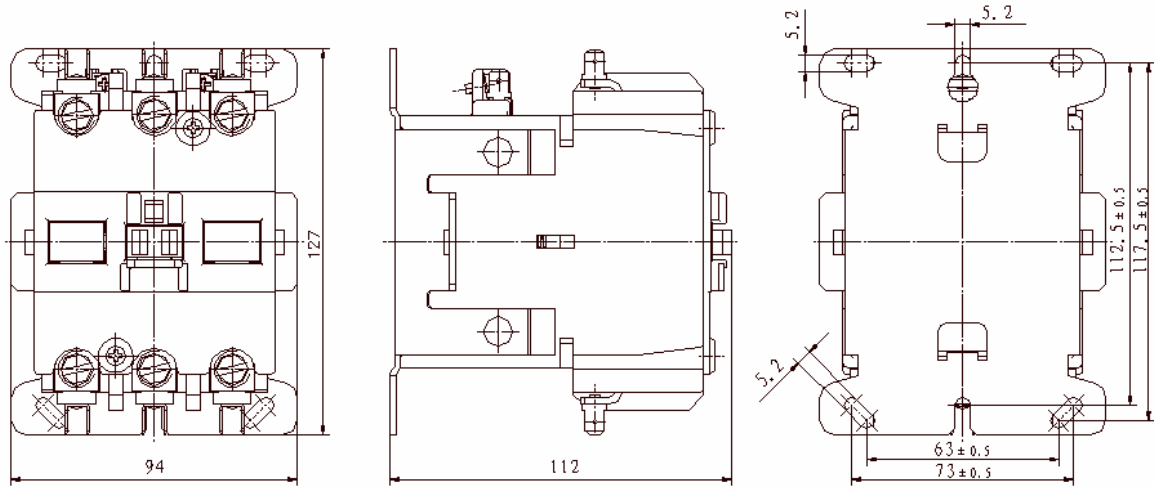
2-pole compact (metal base, 25-40A)



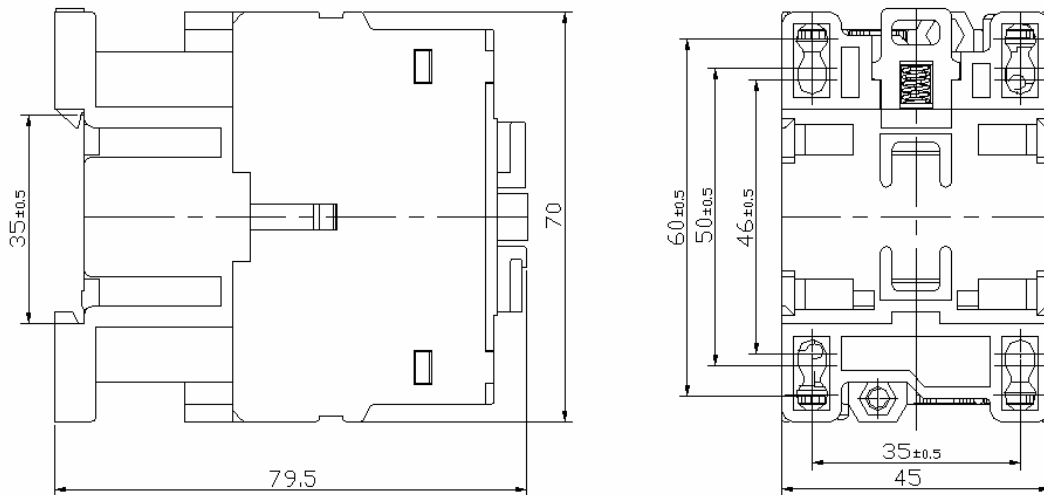
3-pole (metal base, 25-40A)



3-pole (metal base, 50-63A)



3-pole (metal base, 75-90A)



3-pole (small frame, plastic base, 12-25A)