

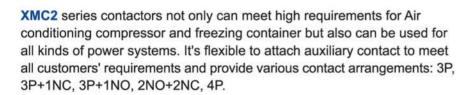
XMC2 Series

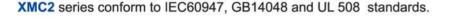
AC Contactors

Description

HONGFA XMC2 series contactors are developed by HONGFA,

based on customer's requirements for pursuing a high performance and reliability. It has wider range of coil voltage, better contact operating ability, higher thermal-resistance class and better performance in anti-shock and vibration than same level product. It applies to electric motor load control of compressor in air conditioner under 50Hz/60Hz, rated insulation voltage ≤690V, rated current ≤30A. (IEC standard AC-8a, AC-8b). It also can be used in power supply system for long distance making and breaking circuit, controlling electric motor load (IEC category: AC-3, AC-4). It is able to work with thermal relays to be a magnet starter assembled to protect circuit from over-load current.







Features

- 1. Unique structure of amortization system eliminates contact bounce.
- 2. Heavy duty Silver Metal Oxide composition contacts with longer electrical endurance.
- 3. Various contact arrangements meet requirements of different customer.
- 4. Interface available for auxiliary contact and protection module. Easy to assemble.
- The maximum ambient temperature can approach +80°C.
- 6. Excellent performance on anti- shock and vibration (acceleration can be 0~20G&40Hz without failure).
- 7. Coils are Class H (180°C)insulated with wide ranges of voltages and 50/60Hz ratings.
- 8. Two types of coil terminals: double coil terminal and triple coil terminal. Easy to change.
- 9. Easy coil change.
- 10. Universal mounting plate allows an easy replacement to other brands.
- 11. Double "E" shaped Magnet Assembly provides optimal performance with lower power consumption.
- 12. Effective dustproof structure.



Type model nomenclature - Ordering Information

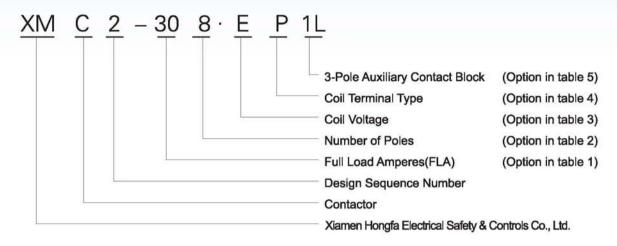


Table 1 Full Load Amperes (FLA)

Code	12	18	30
Full Load Amperes (FLA) (A)	12	18	30

Table 2 Number of Poles

Code	3	4	8	9	2R
Number of Poles	3 poles	4 poles	3 poles+1NC	3 poles+1NO	4 poles(2a2b)

Table 3 Coil Voltage

Code		Е	F	1	М	L	N
Coil Voltage (V)	60Hz	24	110-120	208-240	220	277	440-480
	50Hz	24	110-120	208-220	220	230	380-415

Table 4 Coil Terminal Type

Code	P	S
Coil Terminal Type	Double coil terminal(Standard type, can be omitted)	Triple coil terminal



Table 5 Auxiliary Contact Block (ACB)

Code	00	1L	1R	2L	2R	L1	R1	L2	R2	10	01
ACB	None	1NC	1NC	2NC	2NC	1NO	1NO	2NO	2NO	1NC+1NO	1NC+1NO
Remark	1)	at left	at right								

¹⁾ Standard type, can be omitted

Characteristics

Rated insulation voltage	Rated insulation voltage		690	
Conform to standard			IEC60947-4-1, GB14048.4, EN60947-4-1, UL 508	
Approvals			CE, CCC	
Protective treatment			TH	
Operating position			Vertical	
Ambient temperature	operation	ဗ	-25℃ ~ +70℃	
ransiona tomporaturo	storage	ဗ	-40℃ ~ +70℃	
Relative humidity			90-95%RH at 40℃	
Pollution degree			3	
Shock resistance	contactor open	g	30	
1/2 sine wave=11 ms	contactor closed	g	30	
Vibration resistance 5	contactor open	g	10	
to 60 Hz	contactor closed	g	15	

Performance

XMC2-					
Rated insulation voltage	V	690			
Rated operating voltage	V	48	0/277(60Hz) or 400/230(5	0Hz)	
Full load ampere(FLA)	A	12	18	30	
Resistive load ampere(RLA)	Α	25	30	35	
Making capacity(400V cos φ 0.45)	A	7.	12×FLA		
Breaking capacity(400V cos φ 0.45)	Α		10×FLA		
Switching frequency	op/h	360			
Electrical endurance(ARI 780/790)	cycle	200,000			
Mechanical endurance	cycle	10,000,000			



Pole Characteristics (UL/CSA Parameters)

Full Load Resistive		Loc	Locked Rotor amps			Power		
Amps Amps Per Pole	230/277V	480V	600V	230V 1 Phase	480V 3 Phase	600V 3 Phase	Poles	
12	25	72	60	48	2	7.5	7.5	3:3P 4:4P
18	30	108	90	72	3	10	10	8:3P+1NC
30	35	150	125	100	3	15	15	9:3P+1NO 2R:2a2b

Pole Characteristics (IEC Parameters)

le (A)		AC-3 Use category Control power (kW)			
AC-3(400V)	AC-1 (60°C)	230V	400V/415V/440V	660V	
12	25	4	5.5	5.5	
18	30	5.5	7.5	7.5	
30	35	7.5	11	10	

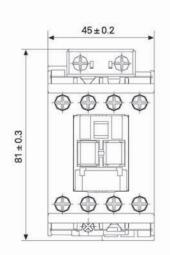
Auxiliary contact blocks characteristics

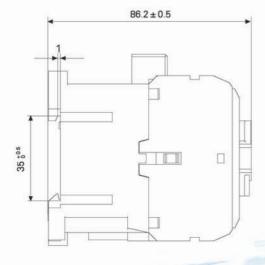
Conventional thermal	current (A)	10 690		
Rated insulation volta	ige (V)			
Rated operational current	A600(AC-15)	230V/3A	380V/1.9A	
Rated operational current	P600(DC-13)	110V/1.1A	230V/0.55A	

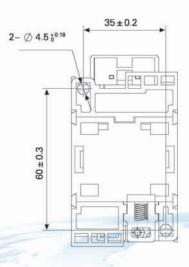
Coil characteristics

- Baltanian Indian	1	0-1-17/4	01-438-45	Volt	age
Part number	Inrushed VA	Sealed VA	Sealed Watts	Pick-up	Drop-out
XMC2-12~30	95	13.5	1.0	≤0.8Us	≥0.3Us

Dimensions



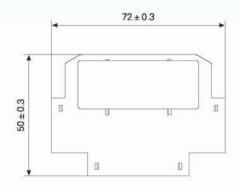


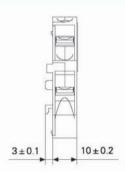


XMC2-12~30A(3P / 3P+1NC / 3P+1NO / 4P / 2R)

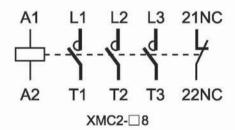


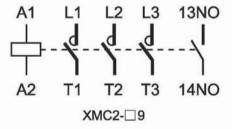
Dimensions





XMC2 Auxiliary Contact Block





Wiring diagram

The tightening torque

XMC2 contactor's wiring can bear exceeding torque value beyond GB and IEC criterion: The maximum torque for main circuit screw reaches 1.8N.m, and for coil terminal reaches 1.2N.m.