DEFINITE PURPOSE CONTACTORS

DESCRIPTION

Zettler Controls XMC0 series of Definite Purpose Contactors are electromechanical switching devices designed ideally for the HVAC industry. The most common applications of our contactors are found in refrigeration, air conditioning and heating. Other applications include elevators, food service equipment, cranes, hoists, welding machines, power supplies, vending machines, lighting, pumps and compressors. XMC0 contactors are built to the ARI 780/790 standard in our ISO 9001 manufacturing facility for high performance and great reliability. XMC0 is available in various pole configurations and load ratings up to 90 amps.

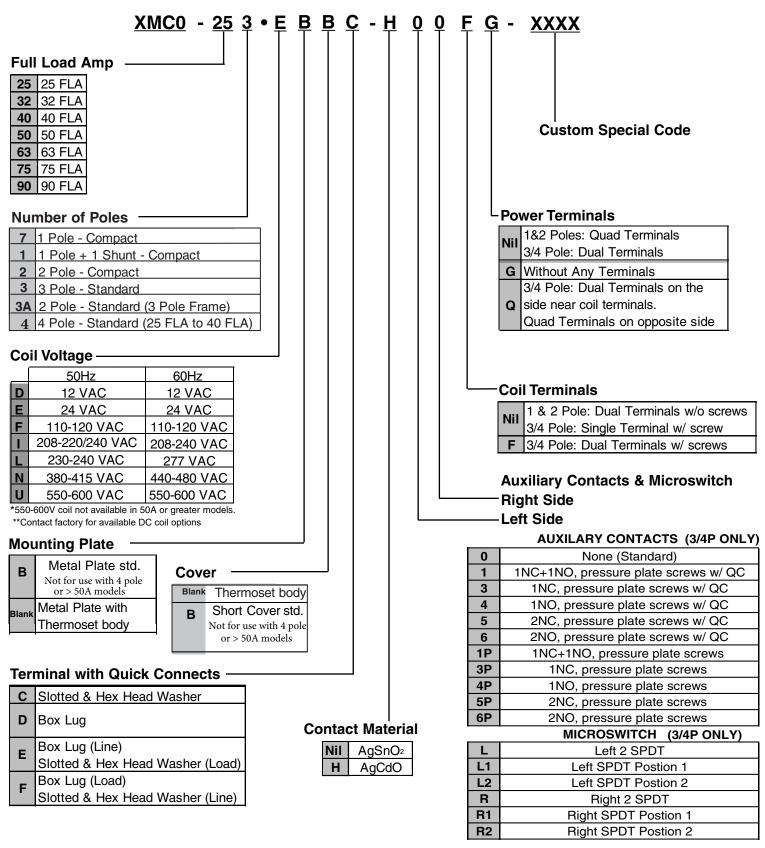


FEATURES

- A variety of termination options for specific application requirements
- Universal mounting plate: Easy replacement of competitor's contactors
- · Heavy-duty contacts ensure long electrical life
- EE lamination (magnetic assembly) provides optimum performance while reducing power consumption
- Performance unaffected by position mounting
- Dust-free internal construction
- SCCR (short circuit current rating) 100kA, 600VAC
- Class F Coil Insulation
- Offer complete line of auxilary contacts and micro switches
- Mechanical Interlock device offered 2P, 2P/3P, 3P, and 4P
- UL, CUR file no. E222994
- Meets ARI 780/790 Guidelines

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PART NUMBERING SYSTEM



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DEFINITE PURPOSE CONTACTORS

GENERAL DATA

Rated insulation voltage	690 Vrms					
Di-electric strength	2500Vrms (coil to contact & contact to contact)					
Designs/conforms to	IEC 60947-4-1, GB14048.4, EN60947-4, ARI780 / 790					
Agency approvals	UL,CUR					
Operating position	Vertical and Horizontal mounting recommended					
Operating altitude	2000 meters without derating					
Ambient temperature	Operating: -25°C to 70°C *					
Ambient temperature	Storage -40°C to 70°C					
Shock resistance						
(1/2 ~ wave) = 11ms	Contact Open: 6g ; Contact Closed: 15g					
Vibration resistance (5-300Hz)	Contact Open: 2g ; Contact Closed: 4g					
Weight	20-40A: 230-420g, 50/63A: 650g, 75/90A: 1550g					
Torque	Screws 25 lb-in/Lugs 40 lb-in for 20-40FLA types					
	Screws 45 lb-in/Lugs 50 lb-in for 50-63FLA types					
	Screws 50 lb-in/Lugs 60 lb-in for 75-90FLA types					
	Screws 8 lb-in for Auxiliary Contact Blocks					
	Coil Screws 8 lb-in for 3/4-pole 30-40FLA and 12 lb-in					
	for 50-90FLA types					
	Main Screws 12 lb-in/Auxiliary Screws 8 lb-in/					
	Coil Screws 8 lb-in for small frame types					
	The female connector should meet IEC 60760, necessary					
QC Wiring	to ensure the reliability of connection between female					
	connectors and QC terminals					

* The overall combined temperature must not exceed the coil insulation max temperature of 155C.

ELECTRICAL

Rated Operating Voltage	12-600VAC max
Make Capacity (230V, cos Ø=0.45)	12 x FLA
Break Capacity (230V, cos Ø=0.45)	10 x FLA
Switching Frequency	360 operations/hour
Electrical Endurance	250,000
Mechanical Endurance	1,000,000
SCCR (UL508)	100kA, 600VAC

AUXILIARY CONTACT BLOCK DATA

Conventiona	10	
Rated Ins	690	
Rated Operational Current (A)	A600 (AC-15) 230/380V	3/1.9
	N600(DC-13) 110/230V	2.2/1.1

MICROSWITCH BLOCK DATA

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DEFINITE PURPOSE CONTACTORS

ELECTRICAL RATINGS

Size	Full Load Amps (FLA)	Resistive Load Amps (RLA)	Locked	Rotor Amp	os (LRA)	Pole Form	Order Number
	(FLA)	(RLA)	240VAC	480VAC	600VAC		
						1P	XMC0-257
	25	32	150	125	100	1P+1shunt	XMC0-251
						2P	XMC0-252
		40	180	150	120	1P	XMC0-327
Compact	32					1P+1shunt	XMC0-321
						2P	XMC0-322
	40	50	240	200	160	1P	XMC0-407
						1P+1shunt	XMC0-401
						2P	XMC0-402
						2P	XMC0-253A
	25	32	150	125	100	3P	XMC0-253
						4P	XMC0-254
	32	40	180	150	120	2P	XMC0-323A
						3P	XMC0-323
Standard						4P	XMC0-324
Standard	40	50	240	200	160	2P	XMC0-403A
						3P	XMC0-403
						4P	XMC0-404
	50	63	300	250	200	3P	XMC0-503
	63	75	360	300	240	3P	XMC0-633
	75	94	450	375	300	3P	XMC0-753
	90	120	540	450	360	3P	XMC0-903

COIL DATA

Pole Form	Inrush VA		Sealed VA		Sealed	Pickup Voltage	Dropout Voltage
	50Hz	60Hz	50Hz	60Hz	(W)	voltage	voltage
1 pole, 1 pole + 1 shunt	33	31	8	6	3.5		<u>></u> 0.2 Us*
2 pole	33	31	8	6	4		
3 pole, 2 pole standard (3A)	72.5	65	13	10	5	< 0.8 Us*	
3 pole -503 & 633	114	110	19	14	7	<u><</u> 0.8 05	
3 pole -753 & 903	295	282	44	33	12		
4 pole	55	50	14.5	11.5	6	-	

*Us = nominal coil voltage. VA data at nominal coil voltage, ambient temperature 25C.

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DEFINITE PURPOSE CONTACTORS

DIMENSIONS

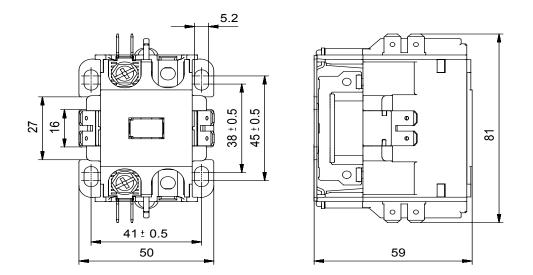


Figure 1 - 1 Pole Contactor (metal base, 25-40FLA)

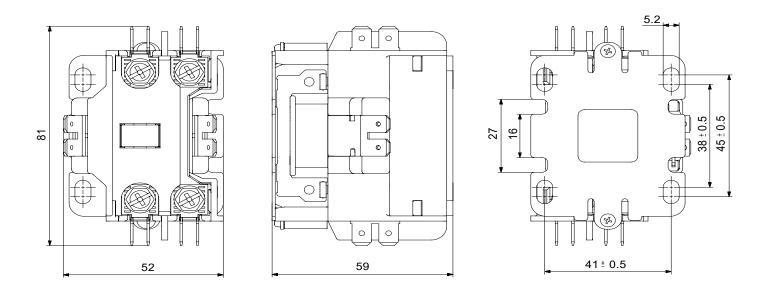


Figure 2 - 1 Pole + Shunt Contactor (metal base, 25-40FLA)

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DEFINITE PURPOSE CONTACTORS

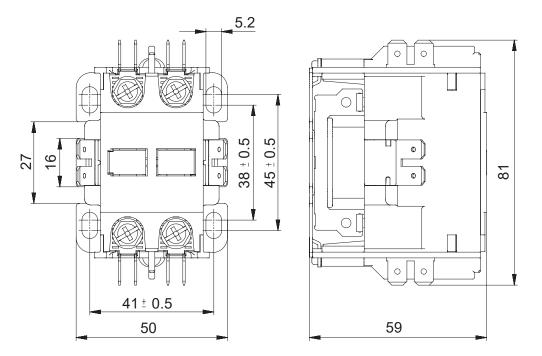
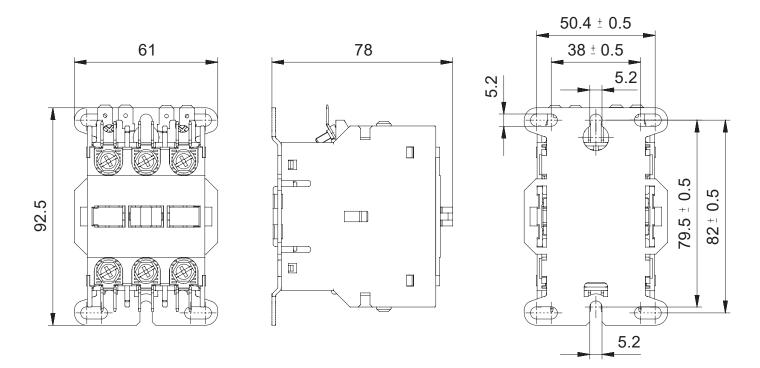


Figure 3 - 2 Pole Contactor (metal base, 25-40FLA)





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DEFINITE PURPOSE CONTACTORS

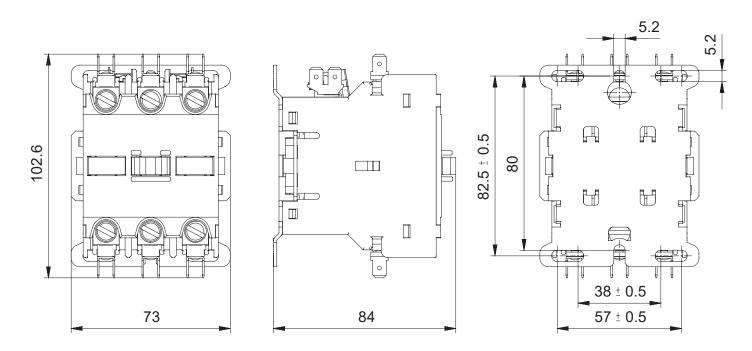


Figure 5 - 3 Pole Contactor (metal base, 50-63FLA)

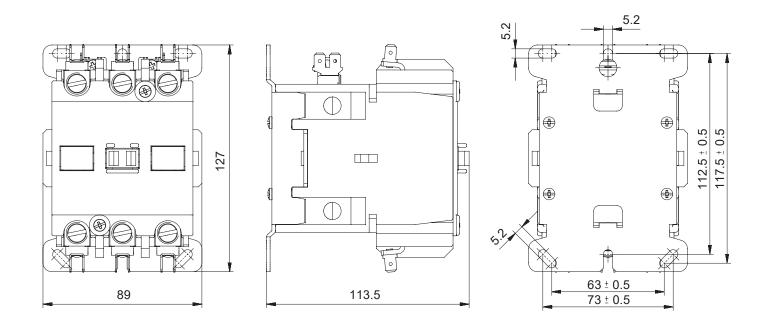


Figure 6 - 3 Pole Contactor (metal base, 75-90FLA)

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DEFINITE PURPOSE CONTACTORS

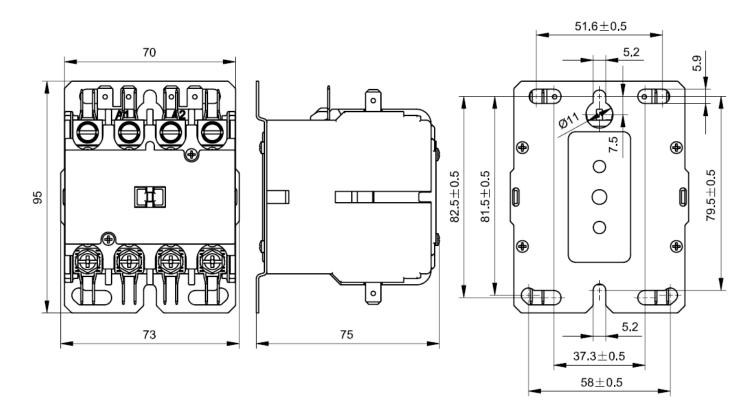
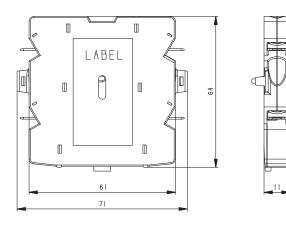
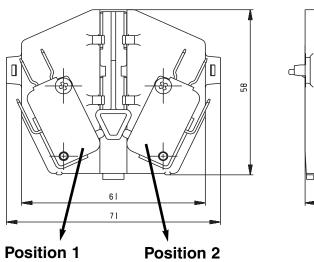


Figure 7 - 4 Pole Contactor (metal base, 25-40FLA)

AUXILIARY CONTACT



MICROSWITCH



Note: Thermoset body contactor uses alternate aux switch, micro switch plate, and interlock snap-fit mounting interface.

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INTERLOCKS

Ordering Information:

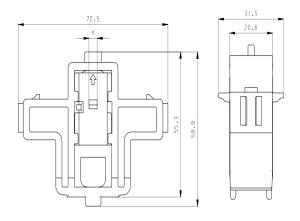
In XMC0 Part Number, replace "Number of Poles" selection with J22 (2 2P), J23 (1 2P & 1 3P), J32 (1 3P & 1 2P), or J33 (2 3P). Interlock Pole Order is left to right for 2P or 3P.

25-40A C03J0

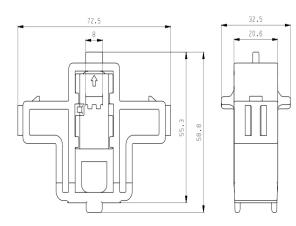
31.5

20.6





75-90A C03J2



Interlock Block Fastener (2X)

