DEFINITE PURPOSE CONTACTORS

DESCRIPTION

Zettler's XMC0 series of Definite Purpose Contactors are electro-mechanical 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 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 auxiliary contacts and micro switches
- Mechanical Interlock device offered 2P, 2P/3P, 3P, and 4P
- UL, CUR file no. E222994

PHONE: (949) 831-5000

Meets ARI 780/790 and IEC/UL 60947-4-1

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PART NUMBERING SYSTEM

$XMC0 - 25 2 \cdot E B B C - H 0 0 F G Z - XXXX$

Full Load Amp -

25	25 FLA
32	32 FLA
40	40 FLA
50	50 FLA
63	63 FLA
75	75 FLA
90	90 FLA

Number of Poles -

7	1 Pole - Compact (25-40 FLA only)
1	1 Pole + 1 Shunt - Compact (25-40A)
2	2 Pole - Compact (25-40 FLA only)
3	3 Pole - Standard
3A	2 Pole - Standard 3 Pole Frame
4	4 Pole - Standard (25-40 FLA only)

Coil Voltage -

	50Hz	60Hz
Е	24 VAC	24 VAC
F	110-120 VAC	110-120 VAC
_	208-220/240 VAC	208-240 VAC
L	230-240 VAC	277 VAC
N	380-415 VAC	440-480 VAC
*U	550-600 VAC	550-600 VAC
*P	12 VDC (Compac	ct frame only)
*Q	24 VDC (Compac	t frame only)
*R	36 VDC (Compac	ct frame only)

^{*}Not available in 50A or greater models.

Frame (Body) Type -

Nil	Standard thermoset frame with removable cover and mounting plate
ВВ	Compact thermo plastic frame (Unavailable with 3/4 pole or 50-90A models)

Power Terminals -

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С	Slotted & Hex Head Washer
D	Box Lugs with quick connects
E	Box Lug w/ quick connect (Line) Slotted & Hex Head Washer (Load)
F	Slotted & Hex Head Washer (Line) Box Lug w/ quick connect (Load)

Contact Material

Nil	AgSnO ₂
Н	AgCdO

*Contact factory for availability of AgCdO

Custom Special Code

└ Contact Construction

Nil	Flat construction
Ζ	Bend construction (50-63 FLA only) (no "break all lines" restriction)

Quick Connect (Power) Terminals

Nil 1/2 Poles: Quad QC Terminals Pole: Dual QC Terminals	
INII	Pole: Dual QC Terminals
G	Without Any QC Terminals
Q	3/4 Pole: Quad QC Terminals (on opposite of coil terminals)

Coil Terminals

NII	1 & 2 Pole: Dual Terminals w/o screws 3/4 Pole: Single Terminal w/ screw
IVII	3/4 Pole: Single Terminal w/ screw
F	3/4 Pole: Dual Terminals w/ screws

Auxiliary Contacts & Microswitch Right Side Left Side

AUXILARY CONTACTS (3/4P ONLY)

0	None (Standard)
1	1NC+1NO, pressure plate screws w/ QC
3	1NC, pressure plate screws w/ QC
4	1NO, pressure plate screws w/ QC
5	2NC, pressure plate screws w/ QC
6	2NO, pressure plate screws w/ QC
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

MICROSWITCH (3/4P ONLY)

L	Left 2 SPDT
L1	Left SPDT Postion 1
L2	Left SPDT Postion 2
R	Right 2 SPDT
R1	Right SPDT Postion 1
R2	Right SPDT Postion 2

DEFINITE PURPOSE CONTACTORS

GENERAL DATA

000 V	
690 Vrms	
2500Vrms (coil to contact & contact to contact)	
IEC 60947-4-1, GB14048.4, EN60947-4, ARI780 / 790	
UL,CUR	
Vertical and Horizontal mounting recommended	
2000 meters without derating	
Operating: -25°C to 70°C *	
Storage -40°C to 70°C	
Contact Open: 6g ; Contact Closed: 15g	
Contact Open: 2g ; Contact Closed: 4g	
20-40A: 230-420g, 50/63A: 650g, 75/90A: 1550g	
Screws: 25 lb-in, Lugs: 25 or 40 lb-in for 25-40FLA 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	
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	Up to 250,000
Mechanical Endurance	1,000,000
SCCR (UL508)	100kA, 600VAC

AUXILIARY CONTACT BLOCK DATA

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

MICROSWITCH BLOCK DATA

Max. Rating	22A at 250 VAC. General use, 6K cycles
Contact Ratings	10A or 11A, 1/3 HP, 125 or 250 VAC 1/2A, 125 VDC; 1/4A, 250 VDC 4A 120 VAC on Lamp Load

DEFINITE PURPOSE CONTACTORS

ELECTRICAL RATINGS

Size	Full Load Amps	Resistive Load Amps	Locked	Locked Rotor Amps (LRA) Pole Form Order Num			ed Rotor Amps (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		
						1P	XMC0-327		
Compact	32	40	180	150	120	1P+1shunt	XMC0-321		
						2P	XMC0-322		
						1P	XMC0-407		
	40	50	240	200	160	1P+1shunt	XMC0-401		
						2P	XMC0-402		
						2P	XMC0-253A		
	25	32	150	125	100	3P	XMC0-253		
						4P	XMC0-254		
						2P	XMC0-323A		
	32	40	180	150	120	3P	XMC0-323		
Standard						4P	XMC0-324		
Standard						2P	XMC0-403A		
	40	50	240	200	160	3P	XMC0-403		
						4P	XMC0-404		
	50	63	300	250	200	2/3P	XMC0-502/3		
	63	75	360	300	240	2/3P	XMC0-632/3		
	75	94	450	375	300	2/3P	XMC0-752/3		
	90	120	540	450	360	2/3P	XMC0-902/3		

DC COIL DATA

Voltage (Us*)	Coil Res. (Ω)	Pickup Voltage	Drop Out Voltage	Max Sealed Watts
12	29			
24	120	< 0.8 Us*	≥ 0.1 Us*	6
36	250			

AC COIL DATA

Pole Form		ush A		aled A	Sealed	Pickup Voltage	Dropout Voltage
	50Hz	60Hz	50Hz	60Hz	(W)	voitage	voltage
1 pole, 1 pole + 1 shunt	55	40	10	7.5	3.5		
2 pole	55	45	10.5	8	4		
3 pole, 2 pole standard (3A)	90	80	16	12	5	< 0.8 Us*	> 0.2 Us*
3 pole -503 & 633	160	145	23	18	7	<u><</u> 0.0 05	<u> </u>
3 pole -753 & 903	325	300	46	35	12		
4 pole	100	90	18	14	6		

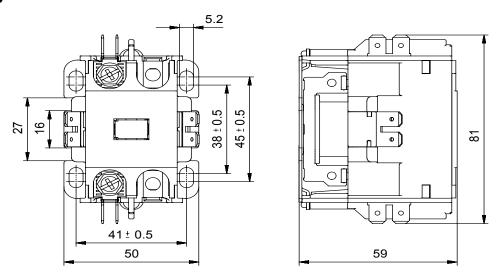
^{*}Us = nominal coil voltage. VA data at nominal coil voltage, ambient temperature 25C.

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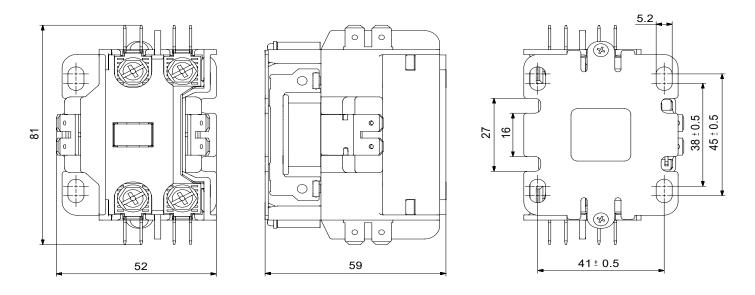
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DIMENSIONS

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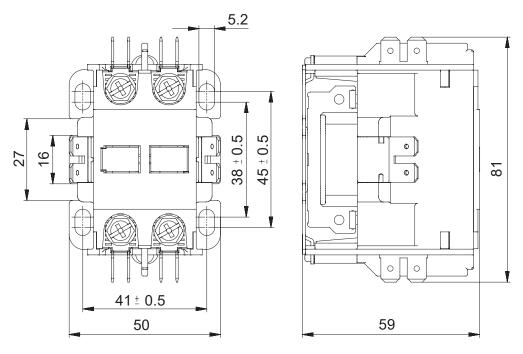


1 Pole Contactor (Compact thermo plastic, 25-40FLA)

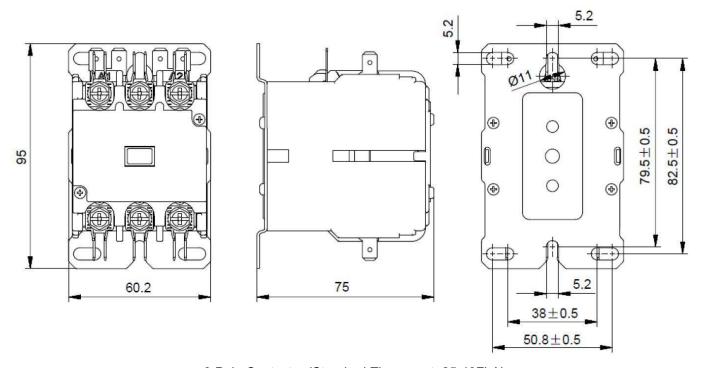


1 Pole + Shunt Contactor (Compact thermo plastic, 25-40FLA)

DEFINITE PURPOSE CONTACTORS

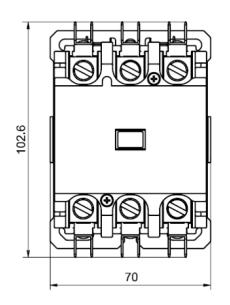


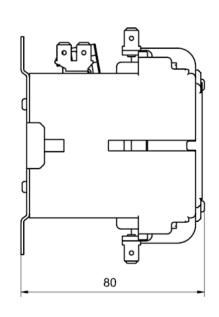
2 Pole Contactor (Compact thermo plastic, 25-40FLA)

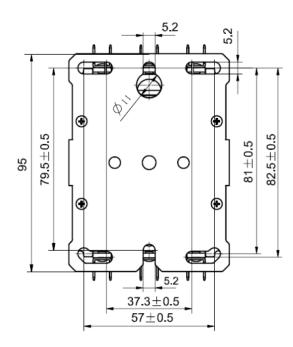


3 Pole Contactor (Standard Thermoset, 25-40FLA)

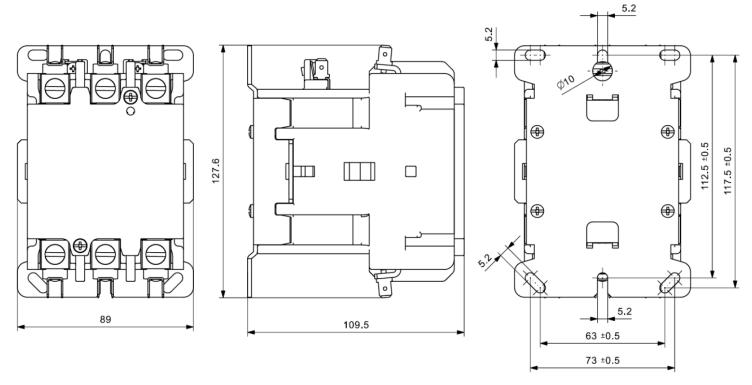
DEFINITE PURPOSE CONTACTORS





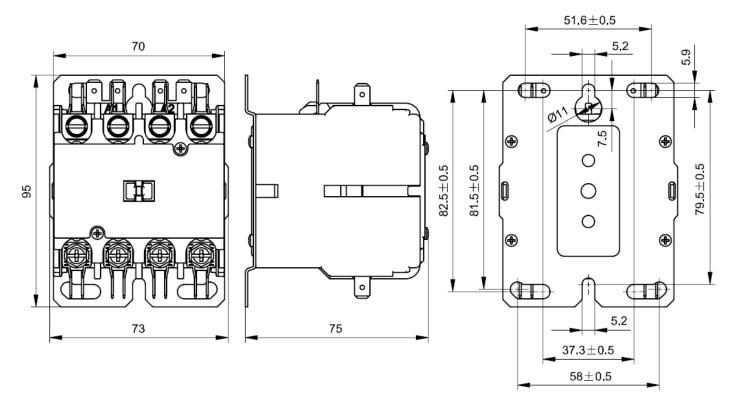


3 Pole Contactor (Standard Thermoset, 50-63FLA)



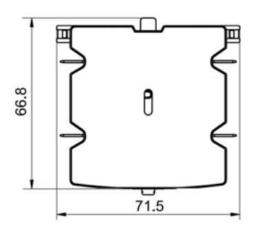
3 Pole Contactor (Standard Thermoset, 75-90FLA)

DEFINITE PURPOSE CONTACTORS

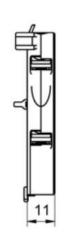


4 Pole Contactor (Standard Thermoset, 25-40FLA)

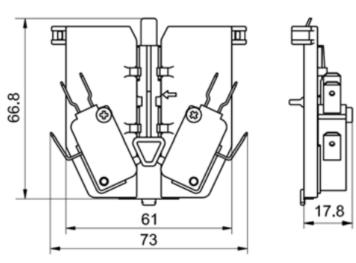
AUXILIARY CONTACT

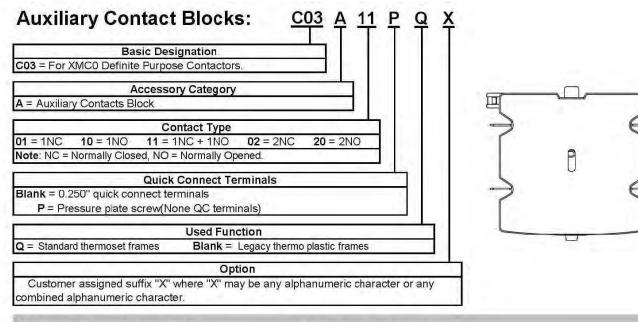


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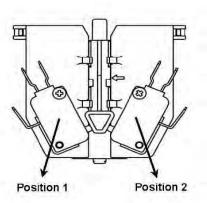
MICROSWITCH





Microswitch Blocks:			C03 M 10 Q
	Basic Designa	tion	
C03 = For XM	C0 Definite Purpose Co	ontactors.	4.4
	Accessory Ca	ategory	
M = Microswite			
	Contac	t Type	
A re-like and a record of the confidence of the	Left side(position 1) fo witch Assembly	all and any analysis of the same of the first of	nt Right side(position oswitch Assembly
0 = None	3 = 1 SPST-NC	0 = None	3 = 1 SPST-NC
1 = 1 SPDT	4 = 1 SPST-NO	1 = 1 SPDT	4 = 1 SPST-NO
	Single Pole Double Throv Closed, NO = Normally (Pole Single Throw,
	Used	Function	
Q = Standard t	hermoset frames	Blank = Lega	cy thermo plastic frames
		Option	
A company of the second	ssigned suffix "X" where alphanumeric characte		y alphanumeric character or

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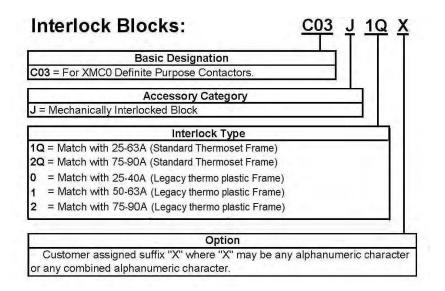


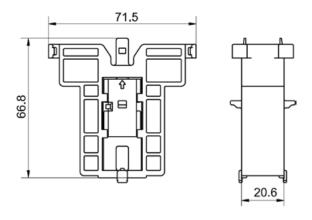
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INTERLOCKS

To include 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.





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