

## Product Facts

- Multi-pole configurations
- Normally open, normally closed and mixed contact arrangements
- Optional quick connect tabs for sensing
- Small, lightweight & cost-effective – designed to be the smallest, lowest cost contactor in the industry with its current rating
- Standard models available with 12VDC, 24VDC and 115 VAC coils. Consult factory for 240VAC coil models.
- 1 Form A auxiliary contacts



 File E208033

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.

## Product Specifications

Parameter	Units	Value for FM200 Series
Contact Arrangement		1, 2 or 3 poles
Contact Form (per pole)		Form X or Y (NO-DM or NC-DB)
Rated Operating Voltage	V	480Vrms (L-L) or 48VDC
Max. Contact Voltage (transient)	V	750Vrms or 60VDC
Continuous (Carry) Current	Arms or ADC	200/pole (Form X) 150/pole (Form Y)
Power Switching Form X (0.7-1.0 PF)	Cycles	2,000 @ 300Arms 10,000 @ 200Arms 20,000 @ 100Arms 5,000 @ 200A/48VDC 2 million @ 50A/28VDC
Power Switching Form Y (0.7-1.0 PF)	Cycles	2,000 @ 225Arms 10,000 @ 150Arms 20,000 @ 75Arms 5,000 @ 150A/48VDC 2 million @ 35A/28VDC
Mechanical Life	Cycles	>2 million
Contact Voltage Drop	mV	75 for Form X or Form Y
Auxiliary Contact Arrangement		1 Form A (SPST-NO)
Auxiliary Contact Rating	Arms or ADC	1 @ 30VDC, 3 @ 125VAC
Dielectric Withstanding Voltage	Vrms	2,200 @ sea level
Insulation Resistance @ 500VDC	Megohms	100
Shock, 11ms 1/2 sine, peak	G	10
Vibration, sine, 10-2000Hz.	G	5
Operating Temperature	°C	-20 to +60
Storage Temperature	°C	-40 to +85
Ambient Humidity	%RH	0 to 95
Weight	oz. / kg	17.6 - 49.4 / 0.5 - 1.4

See Outline Dimensions for model-specific weight information.

## Available Pole Configurations and Applicable Coil Codes

No. of NC Poles (across)	0	1	2	3
No. of NO Poles (down)				
0		Y Coil D	YY Coil D	YYY Coil D
1	X Coil A/B/C/E	XY Coil A/B/C/E	YXY Coil D	
2	XX Coil A/B/C/E	YXY Coil A/B/C/E		
3	XXX Coil A/B/C/E			

X = Form X (NO-DM) Y = Form Y (NC-DB)

## Coil Operating Voltage (valid over temperature range)

Coil Designator	Units	A	B	C	D
Nominal Voltage	V	12 (DC)	24 (DC)	115 (AC)	24 (DC)
Voltage Range	V	9.6-13.2	19.2-26.4	92-126.5	19.2-26.4
Hold Voltage	V	≥0.5V <sub>nom</sub>	≥0.5V <sub>nom</sub>	≥0.5V <sub>nom</sub>	≥0.5V <sub>nom</sub>
Dropout Voltage	V	≤0.1V <sub>nom</sub>	≤0.1V <sub>nom</sub>	≤0.1V <sub>nom</sub>	≤0.2V <sub>nom</sub>

## Coil Resistance Data for Pole Configurations (@25°C)

Coil Designator	Units	A	B*	C*	D*
Resistance ±10%	Ohms	X = 36 XX = 18 XXX = 12 XY = 13.2 XYX = 9.6	X = 36 XX = 18 XXX = 12 XY = 13.2 XYX = 9.6	X = 36 XX = 18 XXX = 12 XY = 13.2 XYX = 9.6	Y = 20.8 YY = 10.4 YYY = 6.9 YXY = 8.1

\*Coil resistance not measurable at terminals due to converter/economizer circuit.

## Coil Current/Power Data for Pole Configurations (@25°C, V<sub>coil</sub>=1.1V<sub>nom</sub>)

Coil Designator	A	B**	
Current/Power	X = 0.37 ADC / 4.84W XX = 0.73ADC / 9.68W XXX = 1.1ADC / 14.5W XY = 1.0ADC / 13.2W XYX = 1.38ADC / 18.2W	X = 0.33ADC / 3.9W XX = 0.65ADC / 7.6W XXX = 0.97ADC / 11.3W XY = 0.98ADC / 12.7W XYX = 1.31ADC / 16.5W	
Coil Designator	C	D***	Pick-Up I / Duration
Current/Power	X = 0.067 Arms / 6.8VA XX = 0.115Arms / 11.6VA XXX = 0.146Arms / 14.8VA XY = 0.074Arms / 7.5VA XYX = 0.161Arms / 16.3VA	Y = 0.13ADC / 3.4W YY = 0.23ADC / 6.1W YXY = 0.34ADC / 9.0W YXY = 0.28ADC / 7.4W	1.28ADC / 75ms 2.4ADC / 75ms 3.0ADC / 75ms 3.0ADC / 75ms

\*\*Average coil current.

\*\*\*Economized.

## Operate/Release Time (25°C, 0.8V<sub>nom</sub> ≤ V < V<sub>nom</sub>) Typ.

Coil Designator	Units	A	B****	C****	D****
Operate Time	ms	25-50	30-50	50-150	20-30
Release Time	ms	10-20	70-80	75-100	75-100
Bounce Time	ms	2-5	2-5	2-5	2-5

\*\*\*\*Includes internal coil suppression.

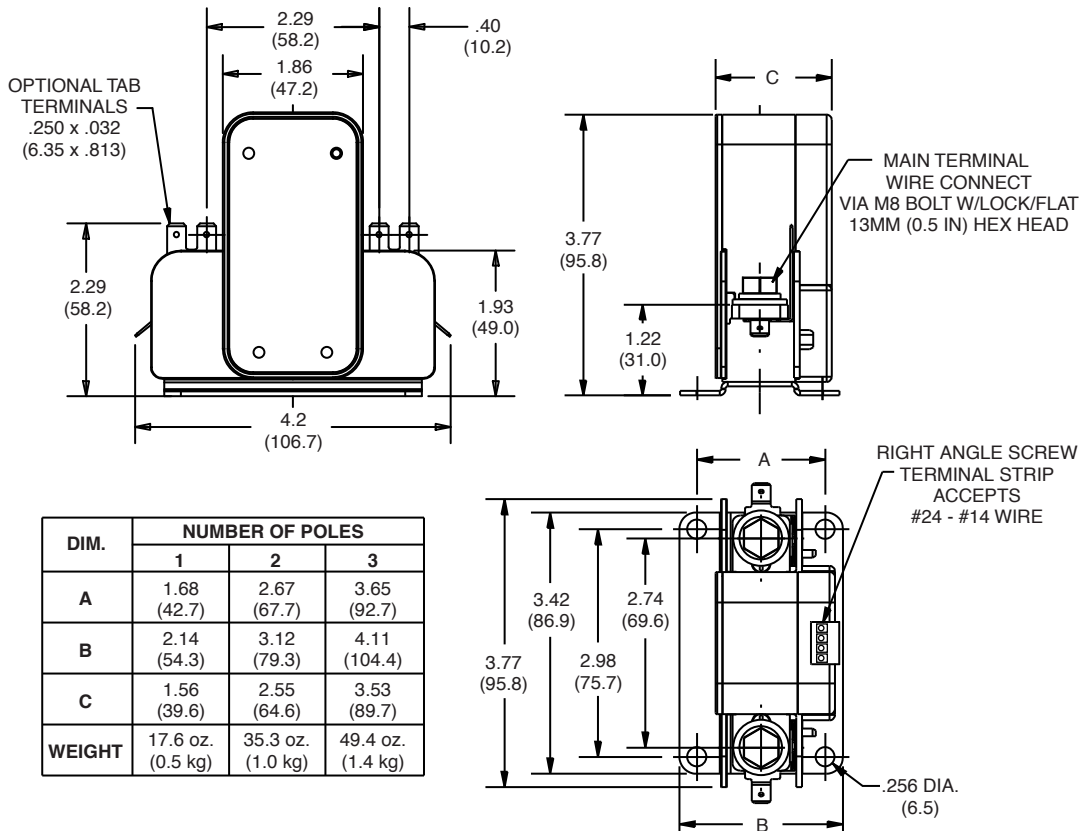
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**KILOVAC FM200 Series (FLATMAN)** (Continued)

**Part Numbering System**

<b>Typical Part Number</b>	<b>FM200</b>	<b>A</b>	<b>B</b>	<b>XYX</b>
<p><b>Series:</b> FM200 = Multipole, 200 Amp, 480VAC/48VDC Contactor</p> <p><b>Control Voltage:</b>  A = 12VDC Coil, No Suppression  B = 24VDC Converter, with Suppression  C = 115VAC Converter, with Suppression  D = 24VDC Electronic Chopper, with Suppression  E = 240VAC Converter, with Suppression - Consult Factory for Availability and Specifications</p> <p><b>Optional Termination:</b>  A = Optional Quick Connect Tabs  B = No Optional Terminals</p> <p><b>Pole Configuration (All models have a 1 Form A (SPST-NO) auxiliary switch):</b>  X = 1 Form X (SPST-NO-DM), Available with control voltage codes A, B, C and E  XX = 2 Form X (2PST-NO-DM), Available with control voltage codes A, B, C and E  XXX = 3 Form X (3PST-NO-DM), Available with control voltage codes A, B, C and E  Y = 1 Form Y (SPST-NC-DB), Available only with control voltage code D  YY = 2 Form Y (DPST-NC-DB), Available only with control voltage code D  YYY = 3 Form Y (3PST-NC-DB), Available only with control voltage code D  XY = 1 Form X (SPST-NO-DM) + 1 Form Y (SPST-NC-DB), Available with control voltage codes A, B, C and E  XYX = 1 Form X (SPST-NO-DM) + 1 Form Y (SPST-NC-DB) + 1 Form X (SPST-NO-DM), Available with control voltage codes A, B, C and E  YXY = 1 Form Y (SPST-NC-DB) + 1 Form X (SPST-NO-DM) + 1 Form Y (SPST-NC-DB), Available only with control voltage code D</p>				

**Outline Dimensions**





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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