

FM200 ("Flatman III") Series Contactor 200 Amps, 480 VAC (50/60 Hz), or 48 Vdc, 1-, 2-, or 3-poles

Product Facts

- Multi-pole configurations
- Normally open, normally closed and mixed contact arrangements
- Optional quick connect tabs for sensing
- Small, lightweight & costeffective - 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

Product Specifications



c Sus File E208033

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

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 See Outline Dimensions for model-spec	oz. / kg cific weight info	17.6 - 49.4 / 0.5 -1.4 rmation.

Available Pole Configurations and Applicable Coil Codes							
No. of NC Poles (across No. of NO Poles (down)) 0	1	2	3			
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	XYX 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	А	В	С	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	$\geq 0.5 V_{\text{nom}}$	$\geq 0.5 V_{\text{nom}}$	$\geq 0.5 V_{\text{nom}}$	$\geq 0.5 V_{\text{nom}}$		
Dropout Voltage	V	$\leq 0.1 V_{\text{nom}}$	$\leq 0.1 V_{\text{nom}}$	$\leq 0.1 V_{\text{nom}}$	$\leq 0.2 V_{\text{nom}}$		

Coil Resistance Data for Pole Configurations (@25°C)						
Coil Designator	Units	А	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 _{coil} =1.1V _{nom})						
Coil Designator	A	B**				
Current/Power	X = 0.37 ADC / 4.8 XX = 0.73ADC / 9.0 XXX = 1.1ADC / 14 XY = 1.0ADC / 13 XYX = 1.38ADC / 13	68W XX = 0.65ADC / 7.6W 4.5W XXX = 0.97ADC / 11.3W .2W XY = 0.98ADC / 12.7W				
Coil Designator	С	D*** Pick-Up I / 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	YY = 0.1 YYY = 0	3ADC / 3.4W 23ADC / 6.1W .34ADC / 9.0W .28ADC / 7.4W			

Average coil current. *Economized.

Operate/Release	Time (25°C,	$0.8V_{nom} \le V$	/ < V _{nom}) Typ		
Coil Designator	Units	А	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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Catalog 5-1773450-5 Revised 3-13

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Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 For additional support numbers please visit www.te.com

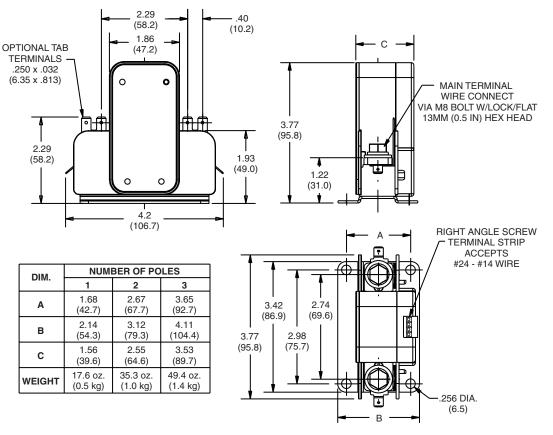


FM200 "Flatman III" Series Contactor (Continued)

Part Numbering System

Typical Part Number	FM200	A	в	хүх
Series: FM200 = Multipole, 200 Amp, 480VAC/48VDC Contactor				
Control Voltage: 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		-		
Optional Termination: A = Optional Quick Connect Tabs B = No Optional Terminals			-	
Pole Configuration (All models have a 1 Form A (SPST-NO) auxiliary switch): 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-NC-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 (3PST-NC-DB), Available only with control voltage code D YYY = 3 Form Y (3PST-NC-DB), Available only with control voltage code D YYY = 3 Form Y (3PST-NC-DB), Available only with control voltage code D XYY = 1 Form X (SPST-NC-DB), Available only with control voltage code D XY = 1 Form X (SPST-NO-DM) + 1 Form Y (SPST-NC-DB) + 1 Form X (SPST-NO-DM), Available with control voltage XYX = 1 Form X (SPST-NC-DB) + 1 Form Y (SPST-NC-DB) + 1 Form X (SPST-NC-DB), Available only with control voltage vo		c and E		-

Outline Dimensions



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