

# 3-POLE MAGNETIC CONTACTORS

## FRAME SIZE OVERVIEW



**22AF**

**P/N: MRC-9B~MRC-22B**

- 1 Normally Open & 1 Normally Closed Auxiliary Contact
- Inductive/Standard Contactor Coils



**150AF**

**P/N: MRC-130A~MRC-150A**

- 1 Normally Open & 1 Normally Closed Auxiliary Contact
- Inductive/Standard Contactor Coils



**40AF**

**P/N: MRC-32A~MRC-40A**

- 1 Normally Open & 1 Normally Closed Auxiliary Contact
- Inductive/Standard Contactor Coils



**225AF**

**P/N: MRC-185A~MRC-225A**

- 2 Normally Open & 2 Normally Closed Auxiliary Contacts
- Electronic Contactor Coils



**65AF**

**P/N: MRC-50A~MRC-65A**

- 1 Normally Open & 1 Normally Closed Auxiliary Contact
- Inductive/Standard Contactor Coils



**400AF**

**P/N: MRC-330A~MRC-400A**

- 2 Normally Open & 2 Normally Closed Auxiliary Contacts
- Electronic Contactor Coils



**100AF**

**P/N: MRC-75A~MRC-100A**

- 1 Normally Open & 1 Normally Closed Auxiliary Contact
- Inductive/Standard Contactor Coils



**800AF**

**P/N: MRC-630A~MRC-800A**

- 2 Normally Open & 2 Normally Closed Auxiliary Contacts
- Electronic Contactor Coils

# MAGNETIC CONTACTORS – 3 POLE CONTACTORS (22AF–150AF)

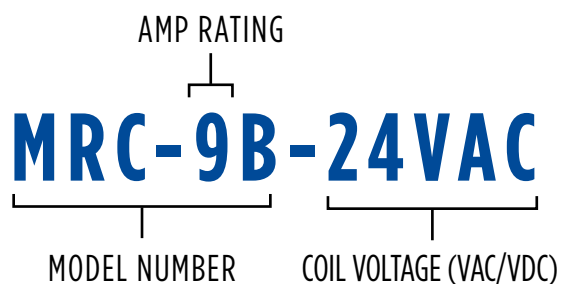
## ORDERING INFORMATION

3-POLE CONTACTORS									
FRAME SIZE	MODEL NUMBER		NEMA SIZE	UL MAX HP RATING (50/60HZ)					
	AC	DC		SINGLE PHASE		THREE PHASE			
				110-120V	220-240V	200-208V	220-240V	440-480V	550-600V
22AF	MRC-9B	MRD-9B	00	1/2	1.5	2	3	5	7.5
	MRC-12B	MRD-12B	-	3/4	2	3	5	7.5	10
	MRC-18B	MRD-18B	0	1	3	5	7.5	10	15
	MRC-22B	MRD-22B	0+	2	3	7.5	10	15	20
40AF	MRC-32A	MRD-32A	1	2	5	7.5	10	20	25
	MRC-40A	MRD-40A	1+	3	7.5	15	15	30	30
65AF	MRC-50LA	MRD-50LA	2	3	10	20	25	40	50
	MRC-65LA	MRD-65LA	-	5	15	25	30	50	60
100AF	MRC-75LA	MRD-75LA	-	5	15	25	30	50	60
	MRC-85LA	MRD-85LA	3	7.5	15	30	40	60	75
150AF	MRC-100LA	MRD-100LA	3+	10	20	30	40	75	75
	MRC-130LA	MRD-130LA	-	10	20	40	40	75	75
	MRC-150LA	MRD-150LA	4	15	25	40	50	100	75

COIL VOLTAGE (22AF–100AF)		
AC	50/60 Hz	24VAC, 48VAC, 120VAC, 220VAC, 240VAC, 380VAC
	60 Hz	208VAC, 277VAC, 480VAC, 600VAC
DC	DC	12VDC, 24VDC, 48VDC, 110VDC

COIL VOLTAGE (150AF)		
AC	50/60 Hz	24VAC, 48VAC, 110VAC, 220VAC, 300VAC, 400VAC, 500VAC
DC	DC	24VDC, 48VDC, 110VDC, 220VDC

### How to Order:



# MAGNETIC CONTACTORS – 3 POLE CONTACTORS (225AF–800AF)

## ORDERING INFORMATION

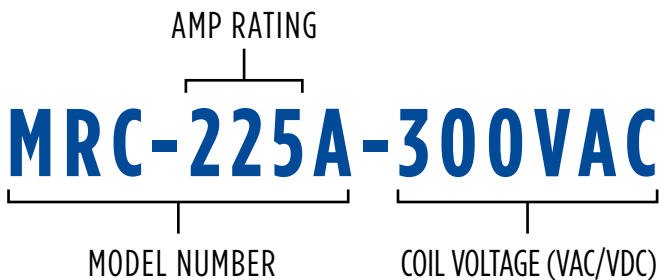
3-POLE CONTACTORS								
FRAME SIZE	MODEL NUMBER	NEMA SIZE	UL MAX HP RATING (50/60HZ)					
			SINGLE PHASE		THREE PHASE			
			110-120V	220-240V	200-208V	220-240V	440-480V	550-600V
225AF	MRC-185A	-	15	30	60	60	125	125
	MRC-225A	-	15	40	60	75	150	150
400AF	MRC-330A	5	-	-	100	125	250	250
	MRC-400A	-	-	-	125	150	300	300
800AF	MRC-630A	6	-	-	200	250	500	500
	MRC-800A	-	-	-	200	300	600	600

COIL VOLTAGE (225AF)		VOLTAGE TYPE	OPERATING RANGE
AC/DC	AC 50/60 Hz	24V	24-25VAC
	DC		24VDC
	AC 50/60 Hz	48V	48-50VAC
	DC		48VDC
AC/DC	AC 50/60 Hz	100V	100-240VAC
	DC		100-120VDC
AC	AC 50/60 Hz	300VAC	265-347VAC
		400VAC	380-450VAC
		500VAC	440-575VAC

COIL VOLTAGE (400AF)		VOLTAGE TYPE	OPERATING RANGE
AC/DC	AC 50/60 Hz	100V	100-240VAC
	DC		100-220VDC
AC	AC 50/60 Hz	300VAC	265-347VAC
		400VAC	380-450VAC
		500VAC	440-575VAC

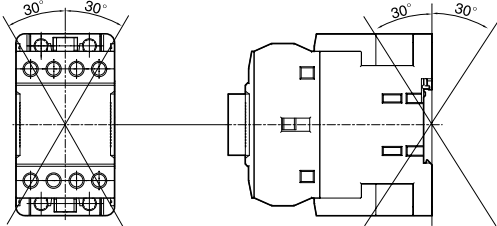
COIL VOLTAGE (800AF)		VOLTAGE TYPE	OPERATING RANGE
AC/DC	AC 50/60 Hz	100V	100-127VAC
	DC		100-110VDC
	AC 50/60 Hz	200V	200-240VAC
	DC		200-220VDC
AC	AC 50/60 Hz	300VAC	265-347VAC
		400VAC	380-450VAC
		500VAC	440-575VAC

### How to Order:



# MAGNETIC CONTACTORS – 3-POLE CONTACTOR SPECIFICATIONS

## ENVIRONMENTAL SPECIFICATIONS

Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, K60947
Certifications	*Refer to page 63
Rated insulation voltage (Ui)	1000V
Rated impulse withstand voltage (Uimp)	8kV
Degree of protection	IP20 (Conforming to IEC 60529)
Ambient air temperature	Storage: -58-176°F (-50°C-+80°C) Operation: 23-131°F (-5°C-+55°C)
Operating altitude	8900ft (3000m)
Operating positions	
Shock resistance (1/2 sine wave = 11ms)	Opened: 8G Closed: 10G
Vibration resistance (conforming to IEC68-2-6), 5-300 Hz	Opened: 2G Closed: 4G
Flame resistance	Conforming to UL 94: V0 Conforming to IEC 695-2-1: 1760°F (960°C)

## COIL TERMINAL CONNECTIONS

3-POLE CONTACTOR TERMINAL CONNECTIONS				
MODEL NUMBER	COIL TERMINAL WIRE GAUGE	CONTACTOR TERMINAL WIRE GAUGE	TORQUE	
			LB-IN	NM
MRC-9B	18-10 (1-6)	18-10 (1-6)	20	2.25
MRC-12B	18-10 (1-6)	16-10 (1-6)		
MRC-18B	18-10 (1-6)	16-8 (1.5-10)		
MRC-22B	18-10 (1-6)	14-8 (2.5-10)		
MRC-32A	18-10 (1-6)	12-8 (2.5-10)	20	2.25
MRC-40A	18-10 (1-6)	8-6 (10-16)	35	4
MRC-50LA	-	10-4 (6-25)	35	4
MRC-65LA	-	8-3 (10-35)		
MRC-75LA	-	8-2 (10-35)		
MRC-85LA	-	8-1/0 (10-50)	45	5.1
MRC-100LA	-	8-2/0 (10-70)		
MRC-130LA	-	3-2/0 (35-70)	80	9.1
MRC-150LA	-	3-4/0 (35-95)		
MRC-9B-150LA Aux./Coil	20-14 (0.5-2.5)	18-12 (0.75-2.5)	15	1.75
MRC-185A	-	1-4/0 (50-95)	130	14.7
MRC-225A	-	1/0-300 (50-150)		
MRC-330A	-	4/0-500 (95-240)	200	22.6
MRC-400A	-	350-700 (185-185x2)		
MRC-630A	-	600-2000	500	26.5
MRC-800A	-	1700-Bus bar		
MRC-185-800A Aux./Coil	16-10 (1.25-5.5)	16-10 (1.25-5.5)	15	1.75

# MAGNETIC CONTACTORS – 3-POLE REPLACEMENT COILS

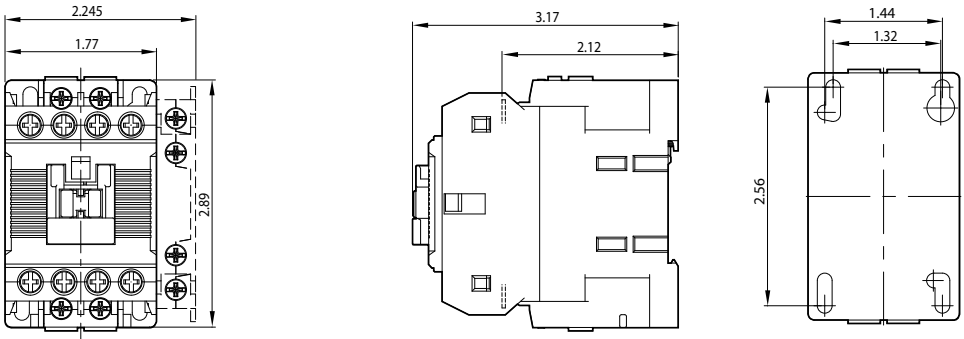
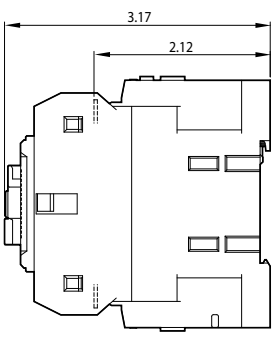
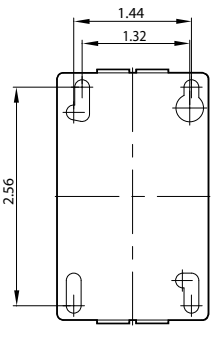
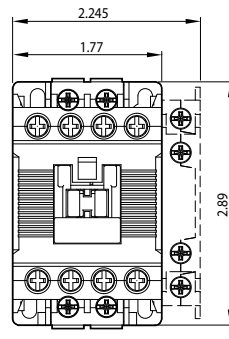
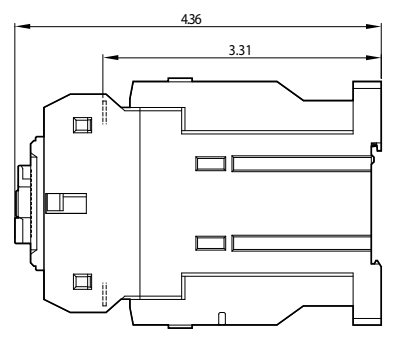
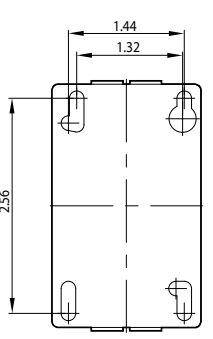
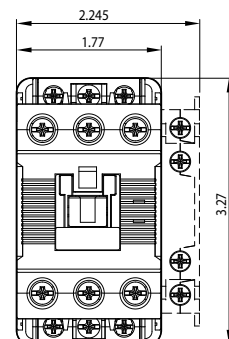
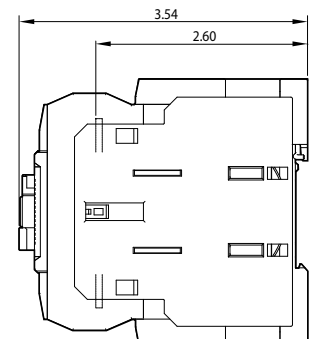
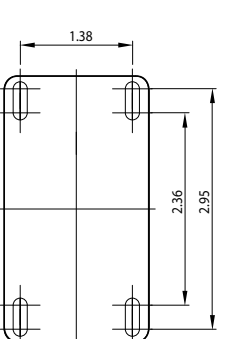
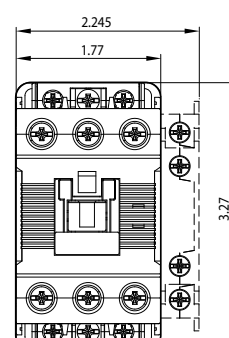
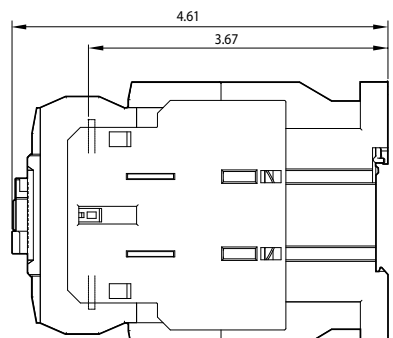
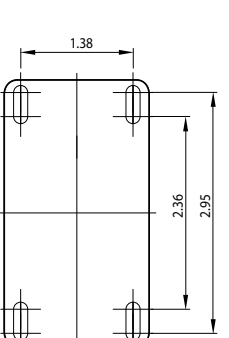
## COIL ORDERING INFORMATION

3-POLE INDUCTIVE/STANDARD REPLACEMENT COILS (22AF–150AF)				
CONTACTOR P/N	AC COIL PART No.	FREQUENCY (Hz)	DC COIL PART NO.	VOLTAGE TYPE
MRC-9B MRC-12B MRC-18B MRC-22B	MC-9B-22B 24VAC	50/60	MC-9B-22B 12VDC	12VDC
	MC-9B-22B 48VAC	50/60	MC-9B-22B 24VDC	24VDC
	MC-9B-22B 120VAC	50/60	MC-9B-22B 48VDC	48VDC
	MC-9B-22B 208VAC	60	-	-
	MC-9B-22B 220VAC	50/60	MC-9B-22B 110VDC	110VDC
	MC-9B-22B 240VAC	50/60	-	-
	MC-9B-22B 277VAC	60	-	-
	MC-9B-22B 380VAC	50/60	-	-
MRC-32A MRC-40A	MC-32A-40A 24VAC	50/60	MC-32A-40A 12VDC	12VDC
	MC-32A-40A 48VAC	50/60	MC-32A-40A 24VDC	24VDC
	MC-32A-40A 120VAC	50/60	MC-32A-40A 48VDC	48VDC
	MC-32A-40A 208 VAC	60	-	-
	MC-32A-40A 220VAC	50/60	MC-32A-40A 110VDC	110VDC
	MC-32A-40A 240VAC	50/60	-	-
	MC-32A-40A 277VAC	60	-	-
	MC-32A-40A 380VAC	50/60	-	-
MRC-50A MRC-65A	MC-50A-65A 24VAC	50/60	MC-50A-65A 12VDC	12VDC
	MC-50A-65A 48VAC	50/60	MC-50A-65A 24VDC	24VDC
	MC-50A-65A 120VAC	50/60	MC-50A-65A 48VDC	48VDC
	MC-50A-65A 208VAC	60	-	-
	MC-50A-65A 220VAC	50/60	MC-50A-65A 110VDC	110VDC
	MC-50A-65A 240VAC	50/60	-	-
	MC-50A-65A 277VAC	60	-	-
	MC-50A-65A 380VAC	50/60	-	-
MRC-75A MRC-85A MRC-100A	MC-75A-100A 24VAC	50/60	MC-75A-100A 12VDC	12VDC
	MC-75A-100A 48VAC	50/60	MC-75A-100A 24VDC	24VDC
	MC-75A-100A 120VAC	50/60	MC-75A-100A 48VDC	48VDC
	MC-75A-100A 208VAC	60	-	-
	MC-75A-100A 220VAC	50/60	MC-75A-100A 110VDC	110VDC
	MC-75A-100A 240VAC	50/60	-	-
	MC-75A-100A 277VAC	60	-	-
	MC-75A-100A 380VAC	50/60	-	-
MRC-130A MRC-150A	MC-130A-150A 24VAC	50/60	MC-130A-150A 12VDC	12VDC
	MC-130A-150A 48VAC	50/60	MC-130A-150A 48VDC	48VDC
	MC-130A-150A 110VAC	50/60	MC-130A-150A 110VDC	110VDC
	MC-130A-150A 220VAC	50/60	MC-130A-150A 220VDC	220VDC
	MC-130A-150A 300VAC	50/60	-	-
	MC-130A-150A 400VAC	50/60	-	-

3-POLE ELECTRONIC REPLACEMENT COILS (185AF–800AF)				
CONTACTOR	AC/DC CONTACTOR COILS		AC ONLY CONTACTOR COILS	
	COIL PART NO.	VOLTAGE TYPE	COIL PART NO.	VOLTAGE TYPE
MRC-185A MRC-225A	MC-185A-225A 24V	24V (24–25VAC)	MC-185A-225A 300V	300VAC (265–347VAC)
		24V (24VDC)	-	-
	MC-185A-225A 48V	48V (48–50VAC)	MC-185A-225A 400V	400VAC (380–450VAC)
48V(48VDC)		-	-	
MC-185A-225A 100V	100V (100–240VAC)	MC-185A-225A 500V	500VAC (440–575VAC)	
	100V (100–120VDC)	-	-	
MRC-330A MRC-400A	MC-330A-400A 100V	100V (100–240VAC)	MC-330A-400A 300VAC	300VAC (265–347VAC)
		100V (100–220VDC)	MC-330A-400A 400VAC	400VAC (380–450VAC)
MRC-630A MRC-800A	MC-630A-800A 100V	-	MC-330A-400A 500VAC	500VAC (440–575VAC)
		100V (100–127VAC)	MC-630A-800A 300VAC	300VAC (265–347VAC)
	100V (100–110VDC)	MC-630A-800A 400VAC	400VAC (380–450VAC)	
	200V (200–240VAC)	MC-630A-800A 500VAC	500VAC (440–575VAC)	
MC-630A-800A 200V	200V (200–220VDC)	-	-	

# MAGNETIC CONTACTORS – 3-POLE CONTACTOR DIMENSIONS

## DIMENSIONS

3-POLE CONTACTORS (22AF-40AF)				
MODEL	DIMENSIONS (IN)			WT. (LBS)
MRC-9B-22B				0.66
MRD-9B-22B				1.10
MRD-32A-40A				1.10
MRD-32A-40A				1.76

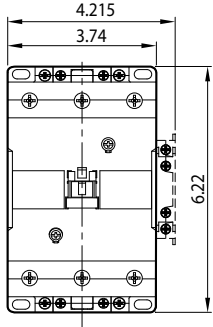
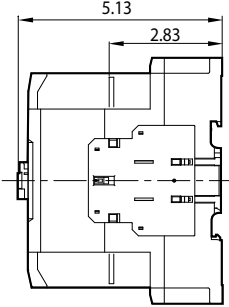
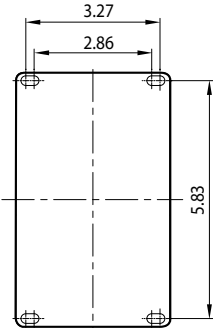
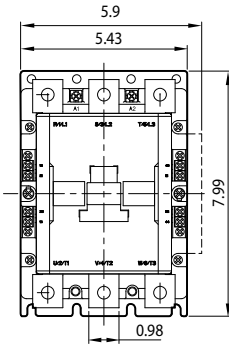
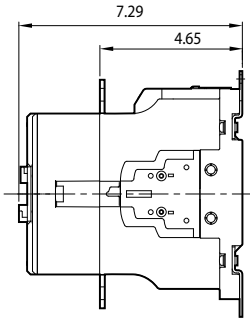
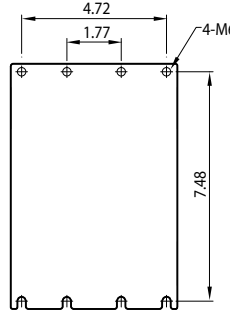
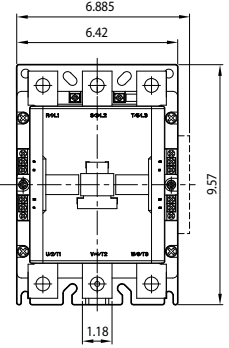
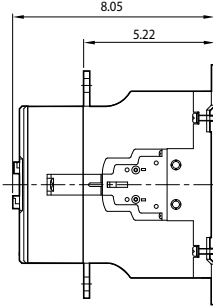
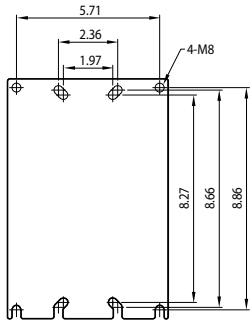
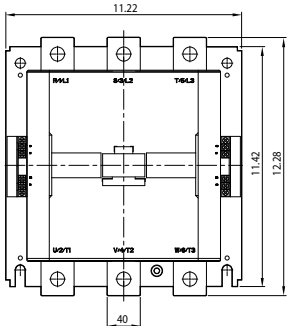
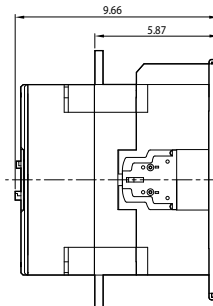
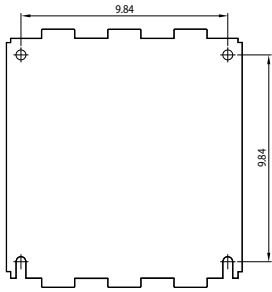
# MAGNETIC CONTACTORS – 3-POLE CONTACTOR DIMENSIONS

## DIMENSIONS

3-POLE CONTACTORS (65AF-100AF)				
MODEL	DIMENSIONS (IN)			WT. (LBS)
MRC-50LA-65LA				1.98
MRD-50LA-65LA				2.65
MRC-75LA-100LA				3.53
MRD-75LA-100LA				5.73

# MAGNETIC CONTACTORS – 3-POLE CONTACTOR DIMENSIONS

## DIMENSIONS

3-POLE CONTACTORS (150AF-800AF)				
MODEL	DIMENSIONS (IN)			WT. (LBS)
MRC-130LA MRC-150LA MRD-130LA MRD-150LA				5.29
MRC-185A MRC-225A				11.91
MRC-265A MRC-330A MRC-400A				20.28
MRC-600A MRC-800A				49.38