

MARS 780 Definite Purpose Contactors

MARS SERIES **614**



MARS 780 - 3 Pole Contactors

MARS 780 - 3 pole contactors are designed for demanding applications. The enclosed body design provides quiet operation and improved durability by reducing the intrusion of dust and dirt. Side attachment rails for auxiliary switches (30-60 amp contactors) allow attachment of MARS 780 or Furnas auxiliary switches. Silver-cadmium oxide contacts provide increased contact life when switching inductive loads.

Features:

- Large arch window box lugs
- SEMS screws or box lugs available on 30 amp contactors
- Recessed push to test button (not on 75 and 90 amp contactors)
- Enclosed body design
- Accepts MARS 780 and Furnas auxiliary switches
- Use standard MARS 780 replacement coils
- Dual QC coil terminals plus screw terminal for easy termination and jumper arrangements
- Coils - class F insulation • 600 volt rating • Foot print compatible

3 Pole 30 - 90 Amp

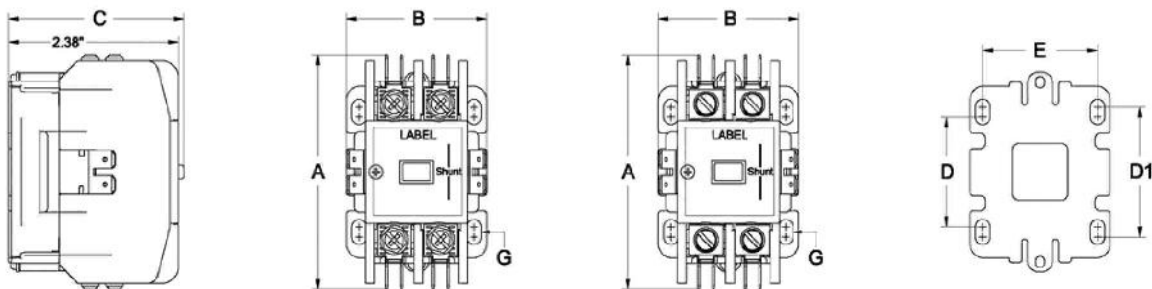
* For 25 Amp Contactors - Use 30 Amp in Place of 25Amp

MARS No.	Furnas No.	FLA	Locked Rotor Amps			Non Inductive Amps	Coil Volts	Horsepower				Termination
			240V	480V	600V			1 PH	3 PH			
								240V	240V	480V	600V	
61430*	42BF35AJ	30	180	150	120	40	24	3 HP	7.5 HP	10 HP	15 HP	Screw Type
61431*	42BF35AF						120					
61432*	42BF35AG						208-240					
61433*	42BF35AL						277					
61434*	42BF35AH						480					
61750	-	30	180	150	120	40	24	3 HP	7.5 HP	10 HP	15 HP	Box Lug
61751	-						120					
61752	-						208-240					
61753	-						277					
61754	-						480					
61445	42CF35AJ	40	240	200	160	50	24	5 HP	10 HP	15 HP	20 HP	Box Lug
61446	42CF35AF						120					
61447	42CF35AG						208-240					
61448	42CF35AL						277					
61449	42CF35AH						480					
61460	42DF35AJ	50	300	250	200	63	24	5 HP	15 HP	20 HP	25 HP	Box Lug
61461	42DF35AF						120					
61462	42DF35AG						208-240					
61463	42DF35AL						277					
61464	42DF35AH						480					
61470	42EF35AJ	60	360	300	240	75	24	7.5 HP	20 HP	25 HP	30 HP	Box Lug
61471	42EF35AF						120					
61472	42EF35AG						208-240					
61473	42EF35AL						277					
61474	42EF35AH						480					
61480	42FE35AJ106	75	450	375	300	94	24	15 HP	25 HP	40 HP	40 HP	Box Lug
61481	42FE35AF106						120					
61482	42FE35AG106						208-240					
61483	42FE35AL106						277					
61484	42FE35AH106						480					
61490	42GE35AJ106	90	540	450	360	120	24	15 HP	30 HP	50 HP	50 HP	Box Lug
61491	42GE35AF106						120					
61492	42GE35AG106						208-240					
61493	42GE35AL106						277					
61494	42GE35AH106						480					

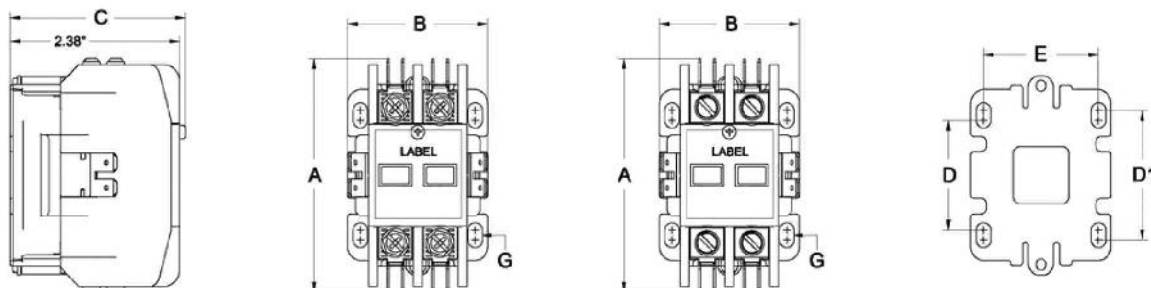
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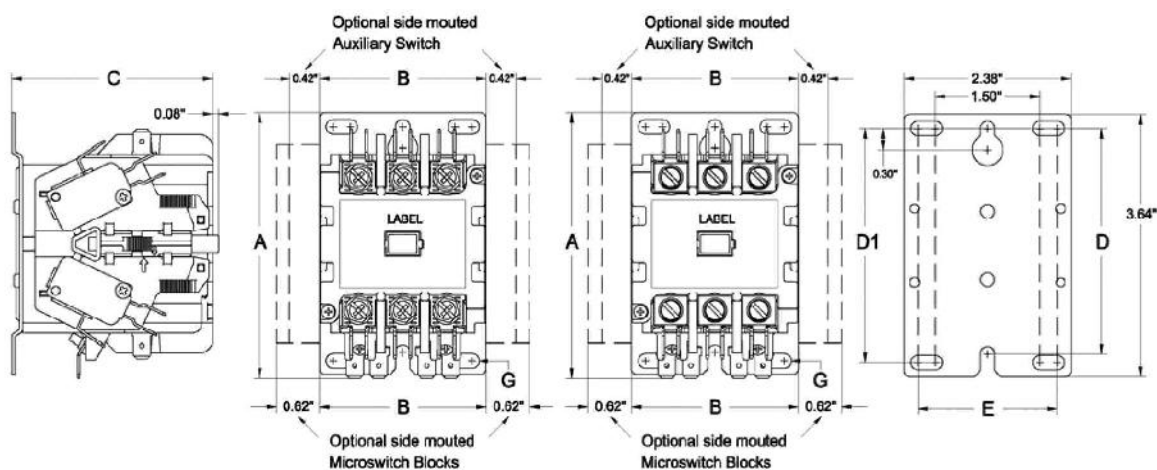
30-40A 1 Pole with Shunt



30-40A 2 Pole



30-40A 2* Pole & 3 Pole



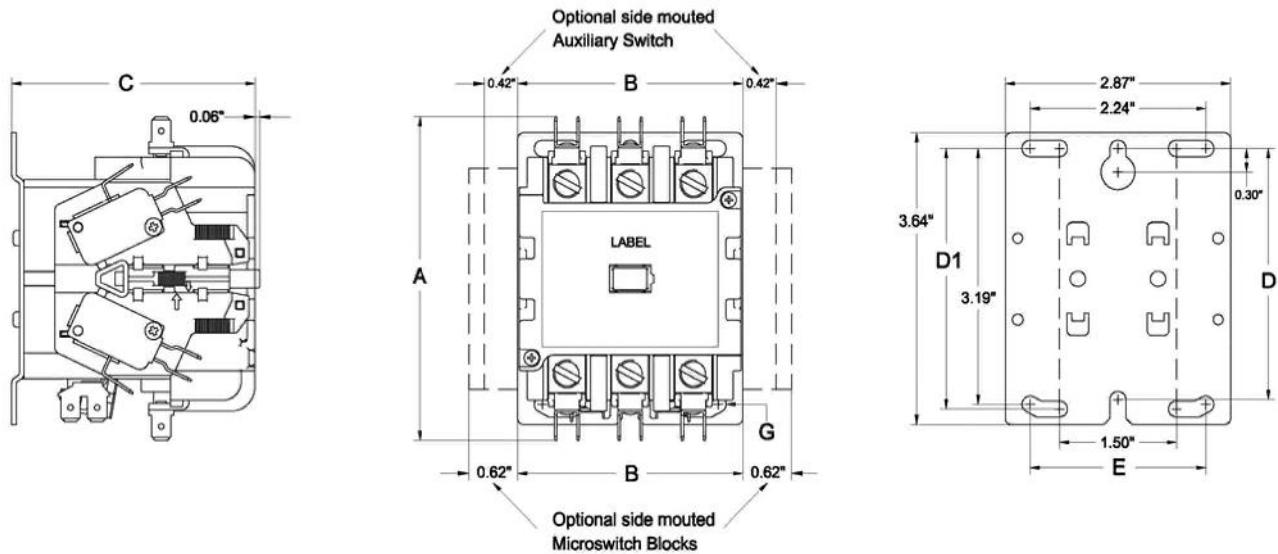
Note - 2* Pole is a 3 pole body with center contacts removed.

MARS No.	FLA	Poles	A	B	C	D	D1	E	Mtg Screw G	Max Wire Size
61320-61324	30	1	3.19	1.97	2.46	1.5	1.77	1.61	10	8
61720-61724 61730-61734	30-40	1	3.19	1.97	2.46	1.5	1.77	1.61	10	4
61345-61349	30	2	3.19	1.97	2.46	1.5	1.77	1.61	10	8
61745-61749 61755-61759	30-40	2	3.19	1.97	2.46	1.5	1.77	1.61	10	4
61430-61434	30	3	3.69	2.38	2.87	3.13	3.25	1.98	10	8
61750-61754 61445-61449	30-40	3	3.69	2.38	2.87	3.13	3.25	1.98	10	4
61425-61428 61440-61443	30-40	2(at 3P)	3.69	2.38	2.87	3.13	3.25	1.98	10	4

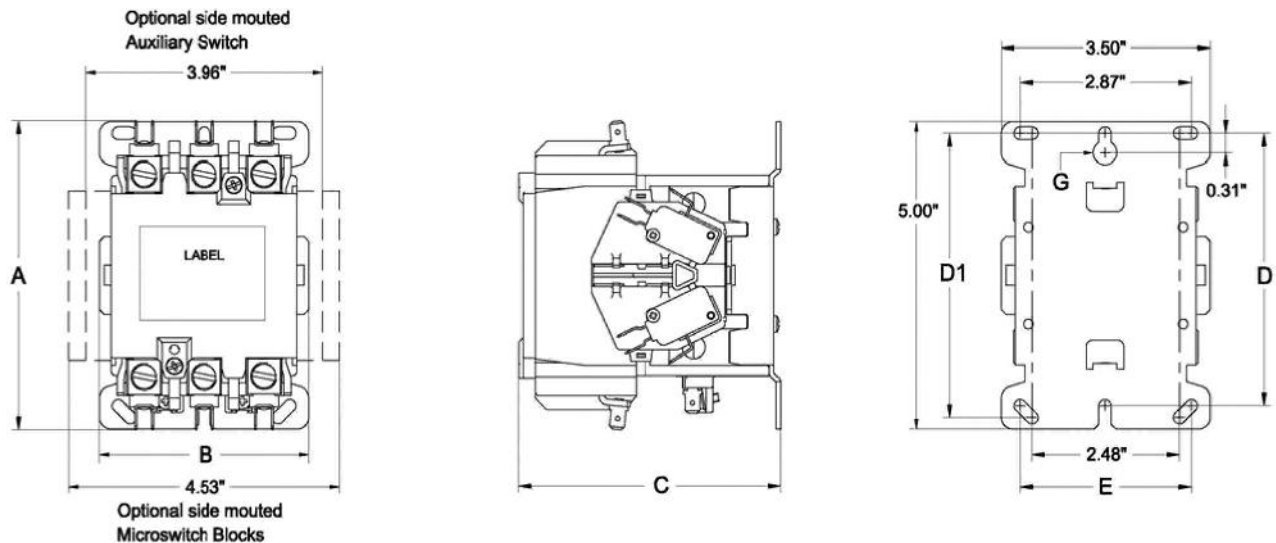
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50-60A 3 Pole



75-90A 3 Pole



MARS No.	FLA	Poles	A	B	C	D	D1	E	Mtg Screw G	Max Wire Size
61460-61464 61470-61474	50-60	3	4.04	2.87	3.11	3.13	3.25	2.24	10	2
61480-61484 61490-61494	75-90	3	5.02	3.5	4.39	4.43	4.63	2.87	10	1/10

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Renewal Parts and Accessories

- Snap on Side Mounted Auxiliary Switches
- Replacement Coils



Auxiliary Switches

MARS No.	Furnas No.	Description	Contactor F.L.A.	Used On
61610	49ACRO	1 NO	30 - 60	61320-61324
61611	49ACRC	1 NC		61720-61724
61612	49ACR6	1 NO- 1 NC		61730-61734
61613	49ACR7	2 NO		61345-61349
61614	49ACR8	2 NC		61745-61749
61615	49D36098001	SPDT		61755-61759
61616	49D36098003	DPDT		61430-61434
61617	-	-		61750-61754
61623	-	SPDT	75-90	61445-61449
61624	-	1 NO		61425-61428
61625	-	1 NC		61440-61443
				61460-61464
				61470-61474

MARS 780 Replacement Coils

MARS No.	Furnas No.	Contactor Size	Coil Voltage
61679	-	3 Pole 30-40 Amp	24V
61680	-		120V
61681	-		208-240 V
61682	-		277V
61683	-		480 V
61684	-	3 Pole 50-60 Amp	24V
61685	-		120V
61687	-		208-240 V
61690	-		277V
61691	-		480 V
61692	-	3 Pole 75-90 Amp	24V
61693	-		120V
61694	-		208-240 V
61695	-		277V
61696	-		480 V



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