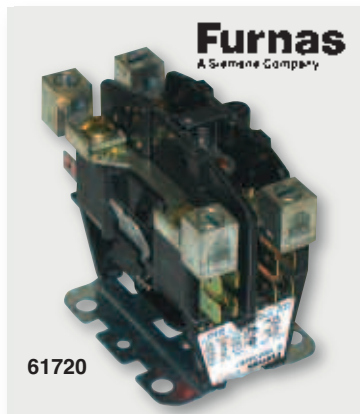


# Furnas/MARS 780 Definite Purpose Contactors

MARS SERIES **614**



## Class 45 w/Jumper 1 Pole 25-40 Amp Contactors

The Furnas Centurion 2000 Contactors offer a high new standard in definite purpose control. When used with an appropriate pilot device they can provide either low voltage protection or low voltage release. These controls have been designed with a low drop out voltage making them ideal for air conditioning, heating and refrigeration applications.

The Centurion 2000 was designed to be a tougher, more compact, more versatile and quieter contactor than ever before.

### Features:

- Compact size
- Interchangeable mounting
- Straight thru wiring
- Sems screws available on 25A, 30A and 40A
- Binding Head Screws optional on 40A
- Class H Coil Insulation on 25-60 amp
- Meets ARI-780, UL and CSA Standards

### 1 Pole with Jumper Wire, 25 – 40 Amps, Class 45

MARS NO.	FURNAS NO.	F.L.A.	LOCKED ROTOR AMPS				NON INDUCTIVE AMPS	COIL VOLTS
			240V	277V	480V	600V		
61315	45DG10AJA	25	150	150	100	80	35	24
61316	45DG10AFA							120
61317	45DG10AGA							240
61320	45EG10AJA	30	180	180	150	120	40	24
61720 <sup>1</sup>	45EG10AJAL <sup>1</sup>							24
61321	45EG10AFA							120
61322	45EG10AGA							240
61323	45EG10ALA							277
61330	45GG10AJA	40	180	180	150	120	50	24
61730 <sup>1</sup>	45GG10AJAL <sup>1</sup>	40	240	200	160	140	55	24

### 2 Pole, 20 – 40 Amps, Class 45

MARS NO.	FURNAS NO.	F.L.A.	LOCKED ROTOR AMPS				NON INDUCTIVE AMPS	COIL VOLTS
			240V	277V	480V	600V		
61335	45CG20AJ	20	-	120	100	80	30	24
61336	45CG20AF							120
61337	45CG20AG							240
61338	45CG20AL							277
61340	45DG20AJ	25	-	150	125	100	35	24
61341	45DG20AF							120
61342	45DG20AG							240
61343	45DG20AL							277
61345	45EG20AJ	30	-	180	135	110	40	24
61745 <sup>1</sup>	45EG20AJL <sup>1</sup>							24
61346	45EG20AF							120
61746 <sup>1</sup>	45EG20AFL <sup>1</sup>							120
61347	45EG20AG							240
61747 <sup>1</sup>	45EG20AGL <sup>1</sup>							240
61348	45EG20AL							277
61349	45EG20AH							480
61755 <sup>1</sup>	45GG20AJL <sup>1</sup>							40
61756 <sup>1</sup>	45GG20AFL <sup>1</sup>	120						
61757 <sup>1</sup>	45GG20AGL <sup>1</sup>	240						

### Coil Data

CLASS	POLES	F.L.A.	WATTS	VA (NOMINAL)		VOLTS (NOMINAL)	
				INBRUSH	SEALED	PICK-UP	DROP OUT
45	1-2	20 - 40	2.6	27	7.3	80%	50%

For Dimensions see page C14 - C16

<sup>1</sup> with Lug and QC



## Class 42 2, 3 and 4 Pole 25-60 Amp Contactors

The Furnas Centurion 2000 Contactors offer a high new standard in definite purpose control. When used with an appropriate pilot device they can provide either low voltage protection or low voltage release. These controls have been designed with a low drop out voltage making them ideal for air conditioning, heating and refrigeration applications.

The Centurion 2000 was designed to be a tougher, more compact, more versatile and quieter contactor than ever before.

### Features:

- Compact size
- Interchangeable mounting
- Straight thru wiring
- Sems screws available on 25A, 30A and 40 A
- Binding Head Screws optional on 40A
- Class H Coil Insulation on 25-60 amp
- Meets ARI-780, UL and CSA Standards

Class 42 contactors offer reliable full voltage control of Compressor Motors and Electric Heating Loads.

These contactors also feature an enclosed recessed push test button to prevent accidental operation. Close tolerance cross arm guidance system reduce chances of binding.

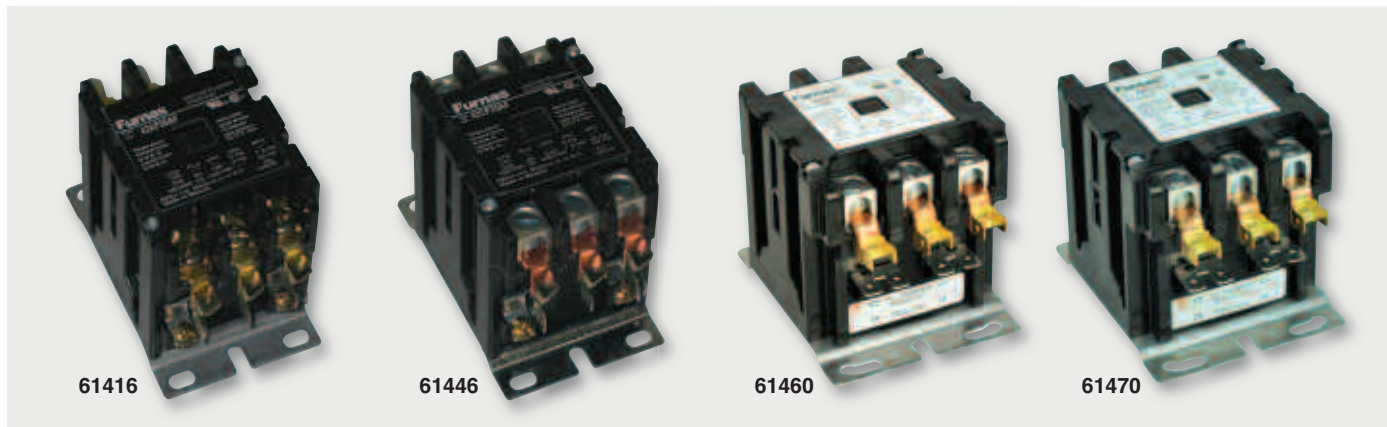
## 2 pole, 25-40 Amp, Class 42

MARS NO.	FURNAS NO.	F.L.A.	LOCKED ROTOR AMPS			NON INDUCTIVE AMPS	COIL VOLTS	HORSE POWER	
			240V	480V	600V			120V	240 V
61410	42AF15AJ	25	150	125	100	35	24	2	3
61411	42AF15AF						120	2	3
61412	42AF15AG						240	2	3
61425	42BF15AJ	30	180	150	120	40	24	2	5
61426	42BF15AF						120	2	5
61427	42BF15AG						240	2	5
61428	42BF15AL						277	2	5
61440	42CF15AJ	40	240	200	160	50	24	3	7.5
61441	42CF15AF						120	3	7.5
61442	42CF15AG						240	3	7.5

For Accessories and Dimensions see pages C-14 to C-16

# Furnas/MARS 780 Definite Purpose Contactors

MARS SERIES **614**



## 3 and 4 Pole, 25 – 60 Amp, Class 42

MARS NO.	FURNAS NO.	F.L.A.	LOCKED ROTOR AMPS			NON INDUCTIVE AMPS	COIL VOLTS	HORSE POWER			MARS NO.	FURNAS NO.
			240V	480V	600V			240V	480 V	600 V		
<b>3 POLE</b>											<b>4 POLE</b>	
61415	42AF35AJ	25	150	125	100	35	24	5	7.5	7.5	-	-
61416	42AF35AF						120	5	7.5	7.5	-	-
61417	42AF35AG						240	5	7.5	7.5	-	-
61430	42BF35AJ	30	180	150	120	40	24	7.5	10	10	61435	42BF25AJ
61431	42BF35AF						120	7.5	10	10	61436	42BF25AF
61432	42BF35AG						240	7.5	10	10	61437	42BF25AG
61433	42BF35AL						277	7.5	10	10	-	-
61434	42BF35AH						480	7.5	10	10	-	-
61445	42CF35AJ	40	240	200	160	50	24	10	15	15	61450	42CF25AJ
61446	42CF35AF						120	10	15	15	61451	42CF25AF
61447	42CF35AG						240	10	15	15	61452	42CF25AG
61448	42CF35AL						277	10	15	15	-	-
61449	42CF35AH						480	10	15	15	-	-
61460	42DF35AJ	50	300	250	200	63	24	15	30	30	-	-
61461	42DF35AF						120	15	30	30	-	-
61462	42DF35AG						240	15	30	30	-	-
61463	42DF35AL						277	15	30	30	-	-
61464	42DF35AH						480	15	30	30	-	-
61470	42EF35AJ	60	360	300	240	75	24	20	40	40	-	-
61471	42EF35AF						120	20	40	40	-	-
61472	42EF35AG						240	20	40	40	-	-

## Coil Data

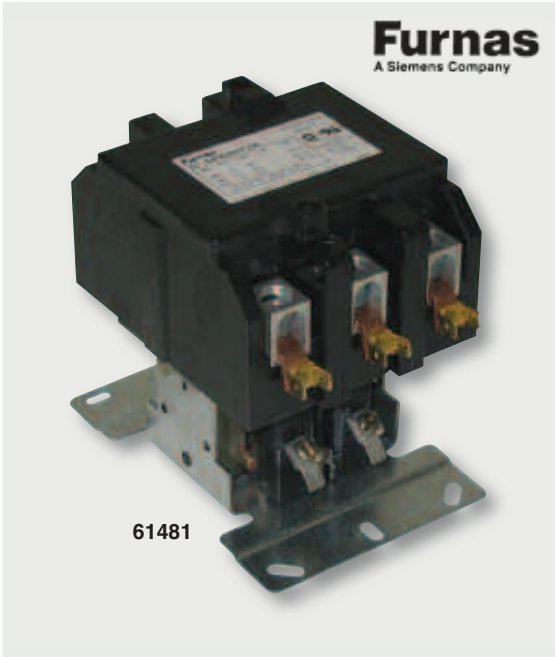
CLASS	POLES	F.L.A.	WATTS	VA (NOMINAL)		VOLTS (NOMINAL)	
				INBRUSH	SEALED	PICK-UP	DROP OUT
42	2 - 3	25 - 40	2.5	52	6.2	80%	50%
42	4	25 - 40	4.2	91	15.6	80%	50%
42	2 - 3	50 - 60	4.2	91	15.6	80%	50%

For Accessories and Dimensions see pages C-14 to C-16

# Furnas/MARS 780 Definite Purpose Contactors

MARS SERIES **614**

COMPONENT



## Class 42 3 Pole 75-150 Amp Contactors

The Furnas Centurion 2000 Contactors offer a high new standard in definite purpose control. When used with an appropriate pilot device they can provide either low voltage protection or low voltage release. These controls have been designed with a low drop out voltage making them ideal for air conditioning, heating and refrigeration applications.

The Centurion 2000 was designed to be a tougher, more compact, more versatile and quieter contactor than ever before.

### Features:

- Compact size
- Interchangeable mounting
- Straight thru wiring
- Encapsulated Coils in a moisture proof epoxy
- Meets ARI-780, UL and CSA Standards
- Class 42 contactors offer reliable full voltage control of Compressor Motors and Electric Heating Loads.

### 3 Pole, 75-150 Amp, Class 42

MARS NO.	FURNAS NO.	F.L.A.	LOCKED ROTOR AMPS			NON INDUCTIVE AMPS	COIL VOLTS
			240V	480V	600V		
<b>3 POLE</b>							
61480	42FE35AJ106	75	450	375	300	93	24
61481	42FE35AF106						120
61482	42FE35AG106						240
61483	42FE35AL106						277
61490	42GE35AJ106	90	540	450	360	120	24
61491	42GE35AF106						120
61492	42GE35AG106						240
61501	42HF35AF	120	720	600	480	150	120
61502	42HF35AG						240
61511	42IF35AF	150	900	750	600	160	120

### Coil Data

CLASS	POLES	F.L.A.	WATTS	VA (NOMINAL)		VOLTS (NOMINAL)	
				INBRUSH	SEALED	PICK-UP	DROP OUT
42	3	75 - 90	13.5	200	31	85%	53%
42	3	120	14	310	26	85%	50%

### Horse Power Rating for 3 Pole

	240 V	480 V	600 V
75 amp	25	40	40
90 amp	30	50	50

For Accessories and Dimensions see pages C-14 to C-16



The largest selection of motors, components, and accessories for the HVAC/R Industry

# Furnas/MARS 780 Definite Purpose Contactors

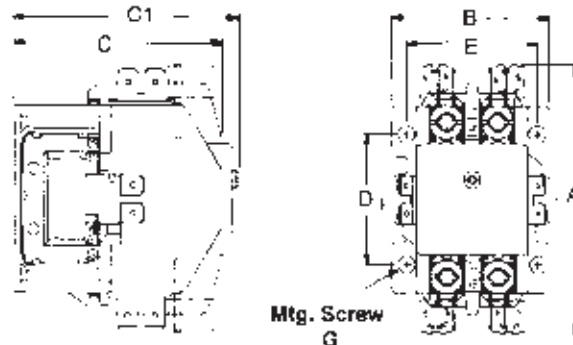
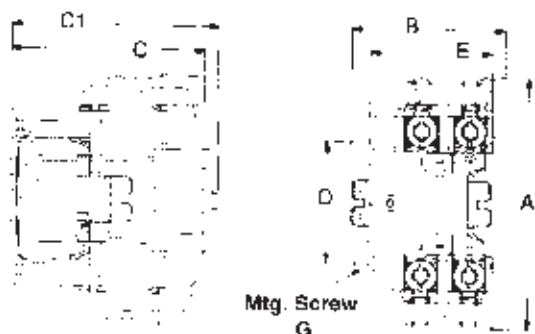
MARS SERIES **614**



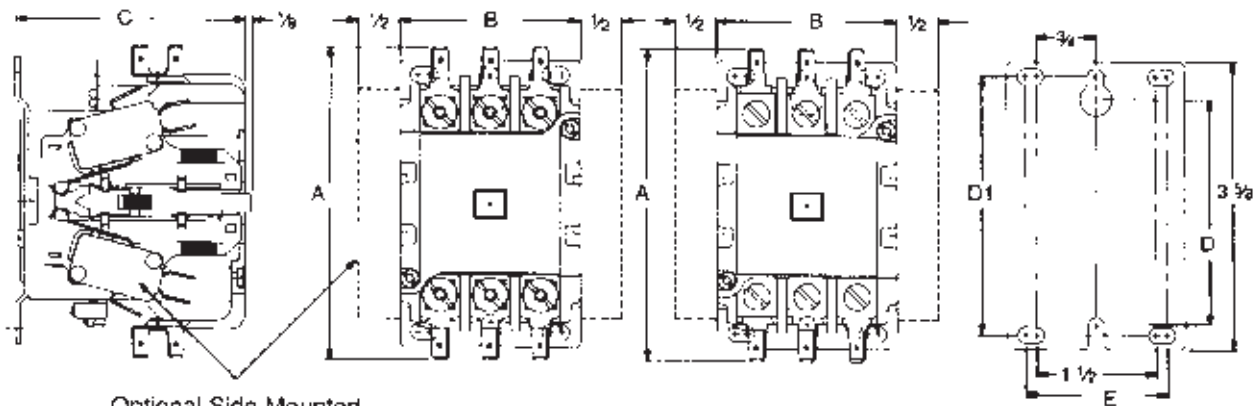
## Renewal Parts and Accessories

20-40A 1 Pole

20-40A 2 Pole



25-40A 3 Pole



Optional Side Mounted Auxiliary Interlocks

MARS NO.	SIZE F.L.A.	POLES	OUTLINE DIMENSIONS				MTG DIMENSIONS			MTG SCREW G	MAX WIRE SIZE
			A	B	C	C1	D	D1	E		
61310-61334, 61720-61734	20-40	1	3-3/8	2-1/16	2-5/8	2-13/16	1-5/8	-	1-5/8	10	10
61335-61359, 61745-61759	20-40	2	3-3/8	2	2-11/16	2-27/32	1-5/8	-	1-5/8	10	10
61415-61419, 61434	25-30	3	3-31/32	2-1/4	2-7/8	-	3-1/8	3-1/4	1 13/16	10	8
61445-61449	40	3	3-31/32	2-1/4	2-7/8	-	3-1/8	3-1/4	1 13/16	10	2

# Furnas/MARS 780 Definite Purpose Contactors

MARS SERIES **614**

COMPONENT



## Renewal Parts and Accessories

### Snap-On Side Mounted Auxiliary Interlocks – Class 42 Contactors

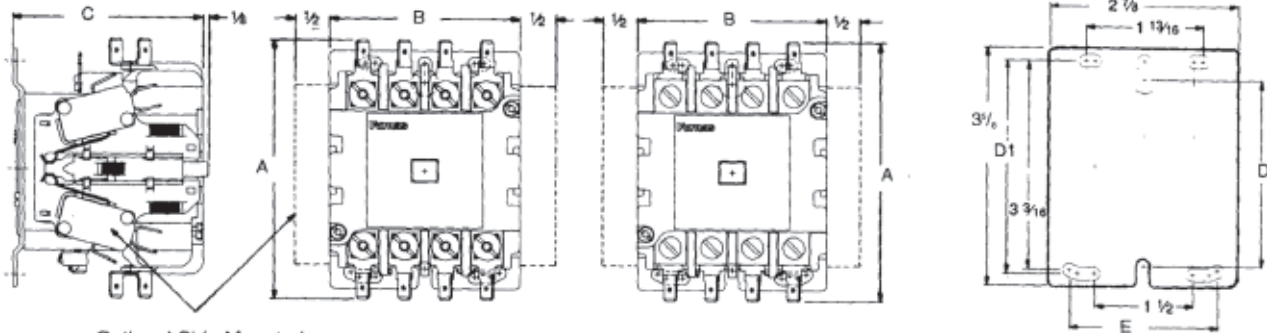
MARS NO.	FURNAS NO.	INTERLOCK CONTACTS	CONTACTOR F.L.A.	USED ON MARS NO.
61610	49ACRO	1 NO		
61611	49ACRC	1 NC		
61612	49ACR6	1 NO – 1 NC		
61613	49ACR7	2 NO	25 - 60	61410 - 61474
61614	49ACR8	2 NC		
61615	49D36098001	SPDT		
61616	49D36098003	DPDT		
61617	49CE42SPDT	SPDT		
61618	49D22125001	1 NO	75 - 90	61475 – 61494
61619	49D22125002	1 NC		

# Furnas/MARS 780 Definite Purpose Contactors

MARS SERIES **614**

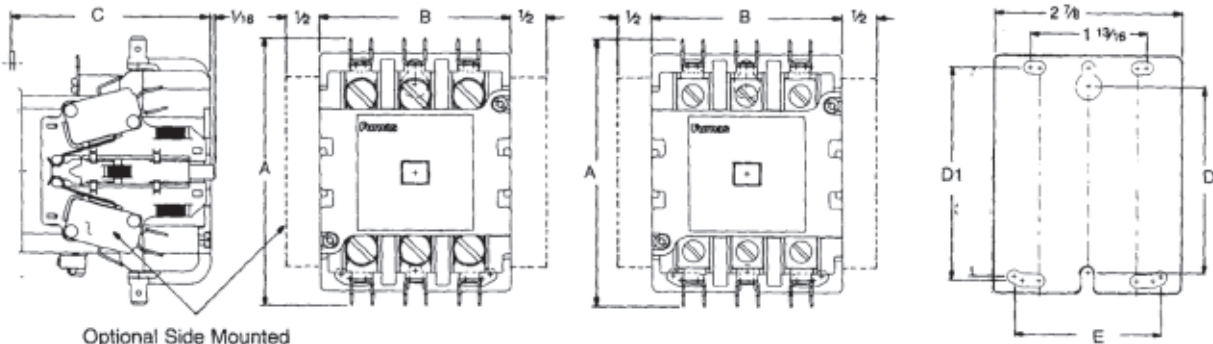


25-40A 4 Pole



Optional Side Mounted Auxiliary Interlocks

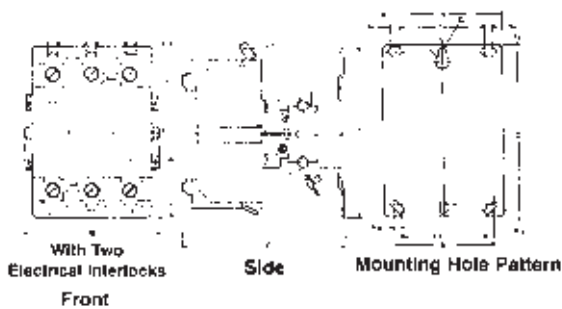
50A, 60A 3 Pole



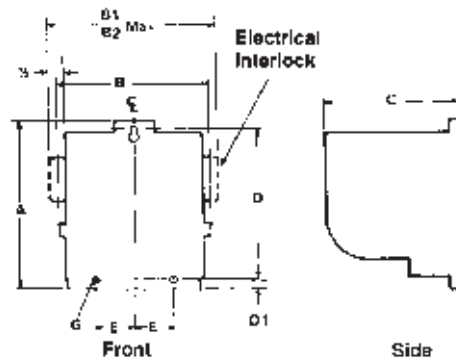
Optional Side Mounted Auxiliary Interlocks

MARS NO.	SIZE F.L.A.	POLES	OUTLINE DIMENSIONS			MTG DIMENSIONS			MTG SCREW G	MAX WIRE SIZE
			A	B	C	D	D1	E		
61420-61424, 61435-61439	25-30	4	3-31/32	2-7/8	2-7/8	3-1/8	3-1/4	2-1/4	10	8
61450-61454	40	4	3-31/32	2-7/8	2-7/8	3-1/8	3-1/4	2-1/4	10	2
61460-61464, 61470-61474	50-60	3	4-1/16	2-7/8	3-1/16	3-1/8	3-1/4	2-1/4	10	2

75A, 90A 3 Pole



120A, 150A 3 Pole



MARS NO.	SIZE F.L.A.	OUTLINE DIMENSIONS				MTG DIMENSIONS			MTG SCREW G	MAX WIRE SIZE
		A	B	B1	C	D	D1	E		
61475-61479, 61480-61484	75	5-3/16	4	-	4-3/4	4-5/8	-	2-7/8	10	1/0
61485-61489, 61490-61494	90	5-3/16	4	-	4-3/4	4-5/8	-	2-7/8	10	1/0
61495-61499, 61500-61504	120	6-1/8	5-1/8	5-1/4	5-1/16	5-5/8	1/4	3/4	1/4	000

Dimensions for reference, not for construction.