

Bulletin 505 Single Phase Reversing NEMA Starters with Eutectic Alloy Overload Relays Sizes 0 through 1 (all series)

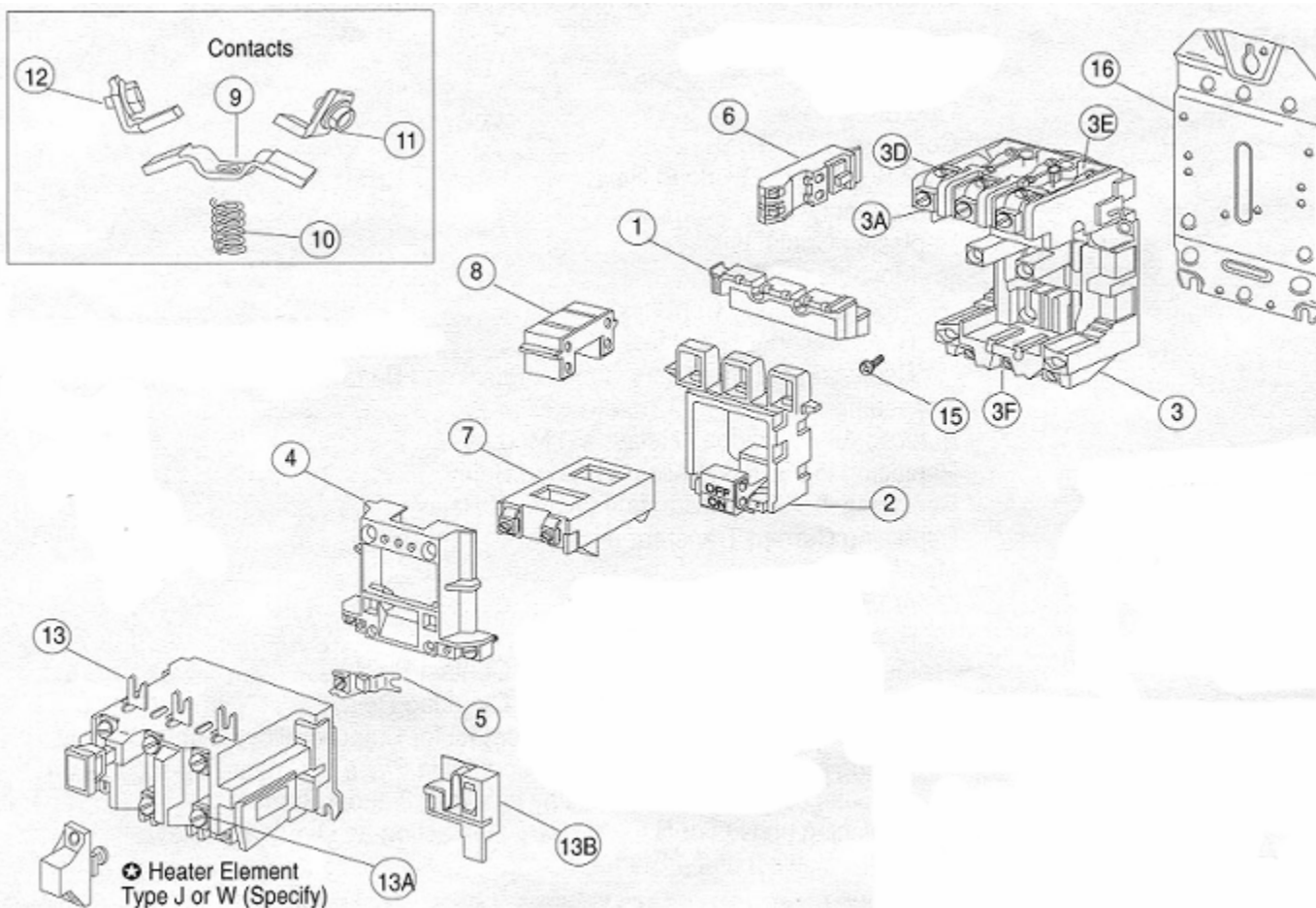
Renewal Parts



(single phase starter similar to 3 phase starter shown above)

Figure 1 is an exploded view of a 505 starter (right-hand contactor is shown below). The 505 single phase starter consists of 2-4 switching poles and overload protection for one phase. Primary parts such as coils and contacts are similar in appearance for all sizes. Secondary parts such as mounting plates, overloads, etc. will vary in appearance. See page 2 for corresponding description of part and part numbers.

Figure 1



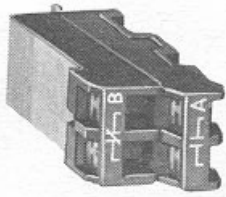
Page 3 contains the corresponding part numbers for the parts illustrated below.

Power Connector Kit

Mechanical Interlock

Electrical Interlock
(1 NO – 1 NC)

Common Mounting Plate for Left and
Right-Hand Contactors



Renewal Parts

Bulletin 505, Single Phase Starters, Sizes 0 through 1 (all series)

Renewal Parts for Figure 1

Item	Description of Renewal Part	Size 0	Size 1
		Part No.	Part No.
1	Contact Block Cover	40410-499-01	40410-499-02
2	Movable Contact Support and Armature Assembly ①	40410-498-01 Series A 40410-498-03 Series B	
3	Stationary Contact Block and Base Assembly ①	See table	
3A	Saddle Clamp Assembly	X-225492	
3D	Front Terminal without Contact	②	
3E	Rear Terminal without Contact		
3F	Front/Rear Terminal Screw		
4	Coil Cover	40410-496-01	
5	Tie Point Terminal	599-TP02	
6	Auxiliary Contact Block	595-A (used as a hold-in contact)	
7	Operating Coil	See table on page 3	
8	Yoke (50-60 Hz)	40410-497-01	
9	Movable Contact	Order Single Pole Contact Set	
10	Contact Spring		
11	Front Stationary Contact		
12	Rear Stationary Contact		
9-12	Single Pole Contact Set (includes [1] each items 9-12)	40410-331-51	40410-331-52
13	Overload Relay (includes Item 13B)	42185-804-01	
13A	Heater Element Screw	M-1552	
13B	Test Module	40185-499-01	
15	Mtg. Screw w/Washer (3 req'd)	28169-100-26	
16	Mounting Plate for Right-Hand Contactor and Eutectic Alloy Overload Relay ③	40410-124-02	
-	Mounting Plate for Left-Hand Contactor	40410-031-02	
-	Mechanical Load Balancer	40410-326-52	

① Less Contacts, order Single Pole Contact Set as required. Two contact kits are required per device.

② Front and rear terminal assembly not available as a renewal part. Replace the complete stationary contact block and base assembly.

③ Sizes 0-1 overload relays are attached directly to the mounting plate.

Stationary Contact Block and Base Assembly Renewal Parts

Type of Single Phase Motor	Number of Switching Poles	Stationary Contact Block and Base	AB Part Number	
			Size 0	Size 1
3 Lead Repulsion Induction (Catalog No. suffix '-101')	2	Right-Hand	40410-492-03	40410-492-04
		Left-Hand	40410-492-03	40410-492-04
3 Lead Split Phase (Catalog No. suffix '-102')	2	Right-Hand	40410-492-03	40410-492-04
		Left-Hand	40410-492-03	40410-492-04
4 Lead Repulsion Induction (Catalog No. suffix '-103')	3	Right-Hand	40410-494-03	40410-494-04
		Left-Hand	40410-494-03	40410-494-04
4 Lead Split Phase (Catalog No. suffix '-104')	3	Right-Hand	40410-494-03	40410-494-04
		Left-Hand	40410-494-03	40410-494-04
4 Lead Split Phase (break all lines) (Catalog No. suffix '-105')	4	Right-Hand	40410-494-03	40410-494-04
		Left-Hand	40410-494-03	40410-494-04

Renewal Parts

Bulletin 505, Single Phase, Sizes 0 through 1 (all series)

Size	Power Connector Kit	Mechanical Interlock	Electrical Interlock (1 NO – 1 NC) (2 req'd)	Common Mounting Plate for Left and Right-Hand Contactors
0	599-B01R	40410-341-51	595-AB	40410-090-02
1	599-B01R	40410-341-51	595-AB	40410-090-02

Operating Coils

Bulletin 505 single phase starters require two coils.

Cat No. Coil Suffix Code	AC Volts	Hz	AB Part Number
			Size 0-1
XWJ	24	60	CB013
XD, XWD	115-120	60	CB236
	110	50	
XS, XWS	110-115	50	CB322
XH, XWH	200-208	60	CB249
XP, XWP	220-230	50	CB339
XA, XWA	230-240	60	CB254
XT, XWT	230-240	50	CB342
XF, XWF	277	60	CB260

Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of this control equipment must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards.

The illustrations, charts, sample programs and layout examples shown in this guide are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability (to include intellectual property liability) for actual use based upon the examples shown in this publication.

Allen-Bradley publication SGI-1.1, *Safety Guidelines for the Application, Installation and Maintenance of Solid-State Control* (available from your local Allen-Bradley office), describes some important differences between solid-state equipment and electromechanical devices that should be taken into consideration when applying products such as those described in this publication.

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Throughout this document we use notes to make you aware of safety considerations:

ATTENTION

Identifies information about practices or circumstances that can lead to personal injury or death, property damage or economic loss



IMPORTANT

Identifies information that is critical for successful application and understanding of the product.

Use only replacement parts and devices recommended by Rockwell Automation to maintain the integrity of the equipment. It is the user's responsibility to ensure that the renewal part number selected is properly matched to the model, series and revision level of the equipment being serviced.

ATTENTION

Servicing energized Industrial Control Equipment can be hazardous. Severe injury or death can result from electrical shock, burn, or unintended actuation of controlled equipment. Recommended practice is to disconnect and lockout control equipment from power sources, and release stored energy, if present.



Refer to **National Fire Protection Association Standard No. NFPA70E, Part 2 and (as applicable) OSHA rules for Control of Hazardous Energy Sources (Lockout/Tagout) and OSHA Electrical Safety Related Work Practices** for safety related work practices, including procedural requirements for lockout/tagout, and appropriate work practices, personnel qualifications and training requirements where it is not feasible to de-energize and lockout or tagout electric circuits and equipment before working on or near exposed circuit parts.

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