

CR193 B,C,D and E Vacuum Limitamp^{*} Contactors

Renewal Parts Bulletin

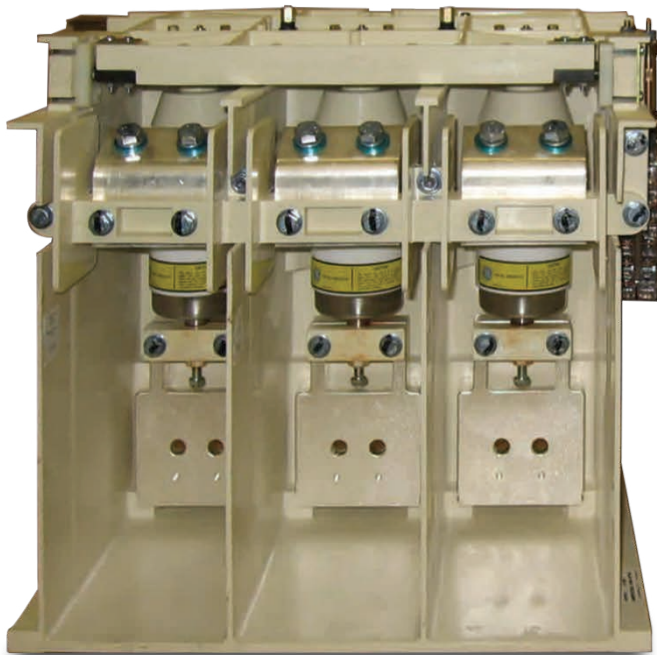


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These instructions do not purport to cover all details or variations in equipment for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the Purchaser's purposes, the matter should be referred to the nearest GE Sales office.

General Information

This renewal parts bulletin will provide the proper identification of standard parts which may be required for the maintenance of the Vacuum Limitamp contactors.

Both the complete contactors and required renewal parts are shown as product numbers and are supported by photographs or drawings. Product numbers identified in this bulletin may not be the same as those parts on the original equipment. The renewal part product numbers are shown in kit form.

It is the intent of this bulletin to give our customers a quick and accurate way to identify parts required for normal maintenance of the Vacuum Limitamp contactors. Unless otherwise stated, all of the parts shown in the bulletin are compatible with the contactors manufactured since 1985.

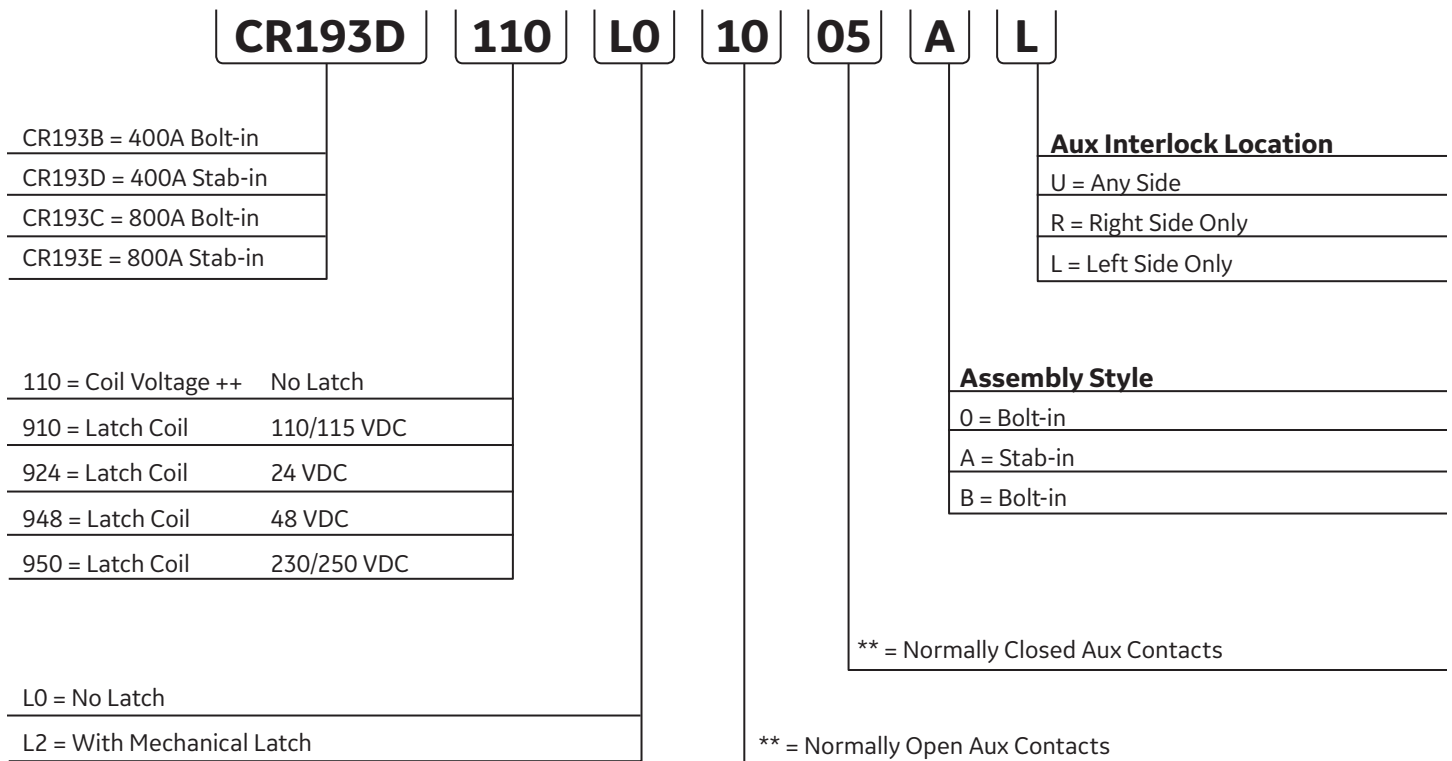
Attention should be given to forecasting your particular renewal parts requirement to ensure on-site availability of the specific parts as required for normal maintenance and proper operation of your equipment.

To maintain maximum operating efficiency and reliability of your equipment, genuine GE renewal parts are recommended. Since contactors are supplied to meet specific customer control and distribution requirements, certain replacement parts not listed in this publication may occasionally be required. Please refer to the factory for these requests.

In these situations, please provide a complete description of the part, along with the complete data shown on the contactor nameplate that is affixed to the top of the contactor. For pricing and availability of parts shown in this bulletin, contact your nearest GE sales office.

When replacing existing bottles, please be sure to use the new bottle with the same product number. Never intermix different vacuum bottle product numbers within the same contactor. When one bottle needs replacement, GE recommends replacing all three bottles to help maintain the most reliable system.

Contactor Product Number Matrix



++ Voltage for contactor main coil is always 110/115DC.

** The sum of normally open and normally closed auxiliary contacts must be a multiple of five (5). Each interlock block contains five (5 contacts). A contactor may contain a maximum of four (4) blocks, two (2) being the maximum on either side.

Typical contactor number: CR193D110L01005AL

- 400A contactor
- w/o mechanical latch—110/115VDC main coil
- 10 normally open aux. contacts
- 5 normally closed aux. contacts
- Stab-in style contactor
- Aux. blocks mounted on left side of contactor

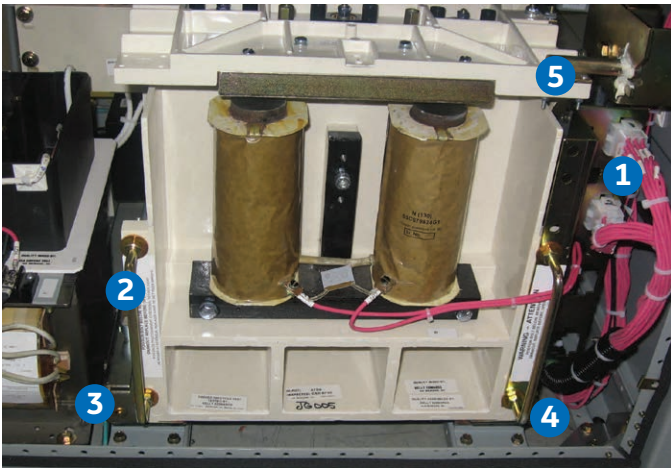


Figure 1. Contactors can be identified by their product number, located on the nameplate on the top of the contactor

Note: 400A contactor shown in photo

400 Amp Contactor

CR193B and D Vacuum contactors are designed for equipment used in starting AC motors with line voltages from 1000-Volts to a maximum of 7200-Volts, transformer feeders, and other medium voltage control equipment.

800 Amp Contactor

CR193C and E Vacuum contactors are designed for equipment used in starting AC motors with line voltages from 1000-Volts to a maximum of 7200-Volts, transformer feeders, and other medium voltage control equipment.

Item	Description	Product Number	Notes
1	Plug mounting bracket	55B532586P1	Four plug holes, 12 pins per plug
1	Old style bracket	55B533219G1	Three plug holes, 19 pins per plug
2	Pull handle	55A213967P1	400A contactor only
3	Slide plate (left)	55B528941G1	400A contactor only
4	Slide plate (right)	55B528942G2	400A contactor only
5	Interlock driver pin	55B533066G1	400A contactor
5	Interlock driver plate	55B533358P1	800A contactor



Figure 2. Wire Harness Assembly

Description	Product Number
Double block harness	VCP6
Old style plug and harness	VCP3



Figure 3. Coil Assembly with mounting bolts

Description	Product Number
400A Contactor	55D781008G3R
800A Contactor	55D781014G3R



Figure 4. 400A Vacuum Bottle w/ adjustment nut on fixed end

Description	Product Number
Vacuum bottle assembly	55C679832G1



Figure 5. 400A Vacuum Bottle w/ fixed end mounting bolt

Description	Product Number
Vacuum bottle assembly	55C679832G2



Figure 6. 800A Vacuum Bottle Assembly

Description	Product Number
800A bottle assembly	55C679827G1



Figure 7. Push Off Springs and Guide Parts

Description	Product Number
400A Contactor	55D781008G2R
800A Contactor	55D781014G2R



Figure 8. Contactor Moving Top Assembly

Description	Product Number
400A Contactor	55D781008G1R
800A Contactor	55D781014G1R

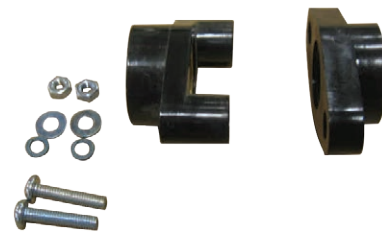


Figure 9. Bottle Guide Assembly (400A on left/ 800A on right)

Description	Product Number
400A Contactor	55D781011G1R
800A Contactor	55D781017G1R

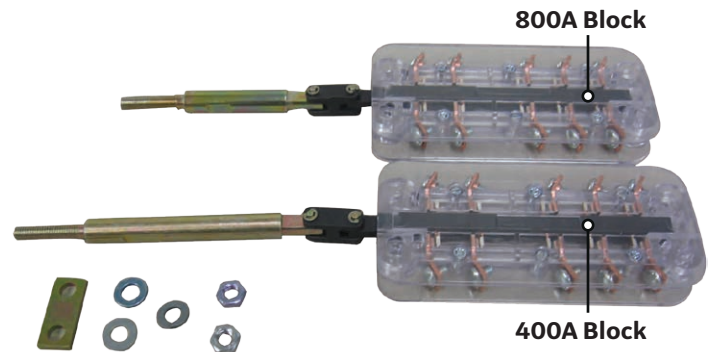


Figure 10

The table lists all possible combinations of auxiliary interlocks within a single block. Select the contact arrangement desired and add the suffix letter to the appropriate product number (i.e. 55C679809G2RP, block for 400A contactor with 4 NO and 1 NC contacts)

Contactor	Product Number
400A Contactor	55C679809_____
800A Contactor	55C679814_____

Suffix	NO	NC
G1RP	5	0
G2RP	4	1
G3RP	3	2
G4RP	2	3
G5RP	1	4
G6RP	0	5

NO = Normally open contacts

NC = Normally closed contacts

Interlock Mounting Plate

Contactor	Left side of Contactor†	Right side of Contactor †
400A Contactor	55B532537P1	55B532537P2
800A Contactor	55C679815P2	55C679815P1

† Side of contactor when viewed from the coil side



Figure 11. 400A Stab-In Contactor Parts

Item	Description	Product Number	Quantity	Notes
1	Side barrier	55C679821P3	1	
2	Phase divider	55C679821P2	2	
3	Line Side Stab "T" block	55B532562P3	3	Stab block thickness .500", used prior to 2001
3	Line Side Stab "T" Block	55B532562P4	3	Stab block thickness .375", used since 2001

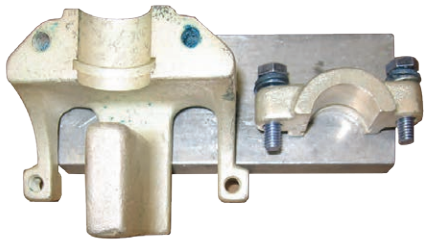


Figure 12. 400A Load Side Stab-In Terminal w/ .500" stab block

Description	Product Number
Bottom terminal	55C679831P1
Clamp block	55B532580P1
Both parts w/hardware	55D781008G5R

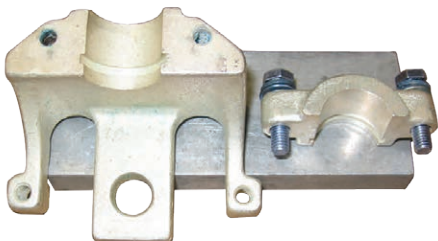


Figure 13. 400A Load Side Terminal for Bolt-In Contactor prior to 2001

Description	Product Number
Bottom terminal	55C679830P1
Clamp block	55B532580P1
Both parts w/hardware	55D781008G4R

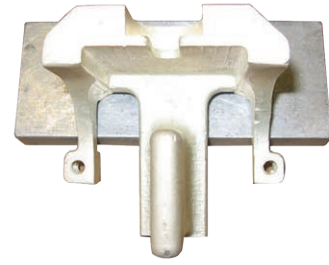


Figure 14. 400A Load Side Stab-In Terminal w/ .375 stab block

Description	Product Number
Bottom terminal	55C679839P1

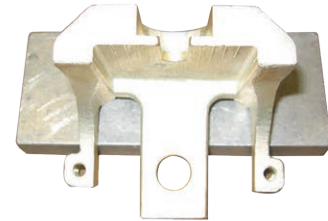


Figure 15. 400A Load Side Terminal for Bolt-in Contactor

Description	Product Number
Bottom terminal	55C679838P1

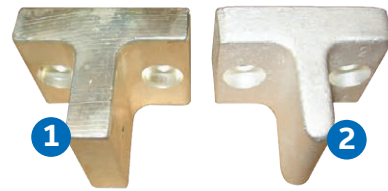


Figure 16. Stab "T" Blocks

Item	Description	Product Number	Notes
1	Line Side Stab "T" block	55B532562P3	Stab block thickness .500" for 400A contactor
2	Line Side Stab "T" Block	55B532562P4	Stab block thickness .375" for 400A contactor
3	Line and Load Side Stab "T" block, 800A	55B532562P5	Stab block thickness .500" for 800A contactor. Not shown



Figure 17. Contactor Adjustment Tool Kit

Description	Product Number
400A Contactor	302A3900DCG1
800A Contactor	302A3900DCG2

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