

Limitamp® Air to Vacuum Conversion Kit

Fact Sheet

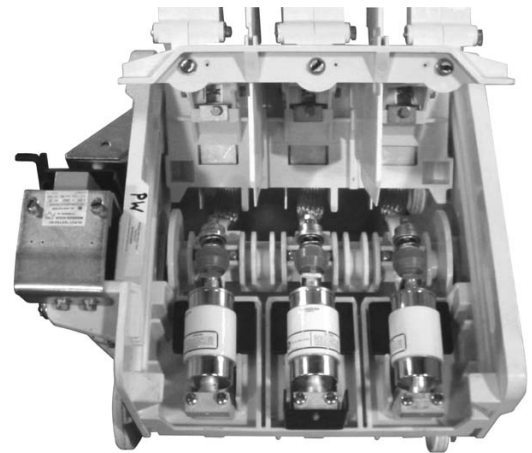
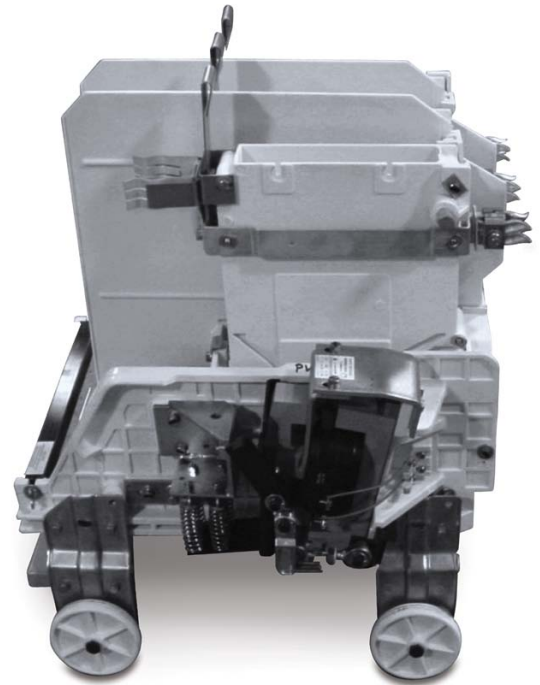
Limitamp Vacuum Contactors are designed to provide long, trouble-free service with only a minimal amount of maintenance. At the same time, this new generation of contactors makes the system dramatically safer for workers, reducing arc flash energy.

Introduced in 1983, vacuum contactors have been designed and tested to meet UL374 and NEMA ICS-3, Part 2 standards. They are fully interchangeable with air break contactors, and use the same clip and bolted fuses.

A conversion from an air to vacuum contactor switches the operation from an AC closing coil to a DC closing coil, which even if misaligned, will not vibrate or chatter and, consequently, not cause system wear. The cast steel armature for the DC closing coil is more robust than the laminated steel armature used in the AC system and less likely to fail.

Limitamp vacuum contactor features:

- Extremely quick interruption - reduces the arc energy and results in low contact wear
- DC closing coil - quiet operation, lower maintenance and replacement costs
- No need for exhaust chutes
- No replaceable arc vanes and arcing horns to maintain
- Uses same clip and bolted fuses as air break contactors
- Long life with minimal maintenance
- Fast and simple inspection of vacuum interrupter tip wear
- Interrupters use low chopping current materials
- Latch contactors available from factory (no field conversion)
- No conversion kit for 700A air break contactors (IC302E)



CR193 V and W Contactors Testing Summary

Test Description	Rating	Test Number
Mechanical Life	1,000,000 operations	82MCC008
Electrical Life	250,000 operations	83MDD010
Heat Run	Less than allowable 65°C Rise	83MDD011
Basic Impulse	60 kv	83MDD013
Short Circuit Interruption	6000A	83MDD015

Conversion Selection Matrix

Basic Contactor Catalog Number	Description	Conversion Parts Required
IC2814E2##** And IC302_____	1966 Design with Glass Polyester Arc Chutes	272A5651HKG1 Contact Kit 272A5651HLG Coil Kit
IC2814E2##*-	1966 Design with Asbestos Compound Arc Chutes	272A5651HKG1 Contact Kit 72A5651HLG- Coil Kit 272A5651HLG Arc Chute Kit
IC2814E1##--	1962 Design Sheet Metal Frame Power Fuses on Top	No Conversion Kit
IC302E-----	1966 Design 700A Contactor	No Conversion Kit

= Numeric Field

** = Alpha Field

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