

June 2008
Aftermarket Solutions, Ref. No. [245]

Product History/Pre 3-Star

Product History

The Cutler-Hammer line of contactors and starters dates back to the early 1920s in Milwaukee, WI. Changes in coil construction, making the first moisture-proof vacuum with impregnated coils, were innovations in this line of contactors and starters manufactured before the 3-Star line (now known as the Pre 3-Star). Eutectic alloy overloads were used later in this design with the design change to the 3-Star line. A few of the new features of the 3-Star line of contactors and starters were the first standard three coil overload relays, new molding compounds, new metals and cast resin coils.

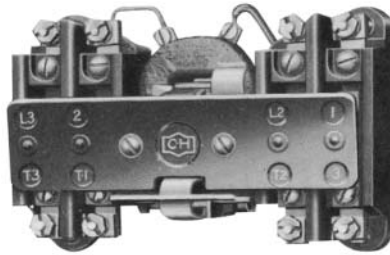
The Type F magnetic contactor is the first magnetically controlled contactor in our Westinghouse® records. It was open in design, simple in construction and was state-of-the-art due to its magnetically controlled armature. The Type F contactor was replaced by the DE-ION® contactor which featured the Westinghouse trademark DE-ION arc quenching. The DE-ION was followed by the Type DN, Type N, and the Type A, today known as the A200. The Type B was developed in the late 1970s and was obsoleted two or three years later. The A200 open control is still a current offering. Prior to 1985, some of the larger sizes (5-9) were known as GCA and GCD.

The Citation line of contactors and starters was introduced in 1968 with many new features: the new CI non-wearing totally enclosed permanent air gap magnet structure; dual wound magnet coil with plug-in feature; color coded, twin break dust-safe contacts; and straight-through wiring. Although the Citation line was obsoleted in 1997, replacement contact kits, magnet coils and heater coils will continue to be available.

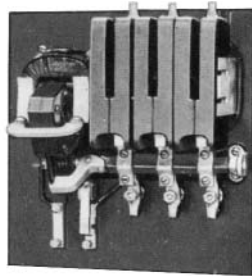
Today, the Freedom™ contactor, launched in 1986, coexists with the solid-state heaterless *IT* contactor, a microprocessor-controlled magnetic contactor introduced in 2002.

Pre 3-Star

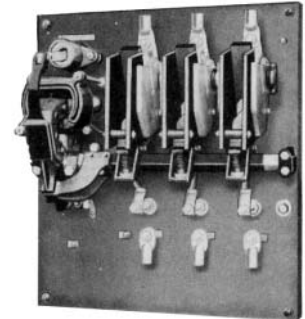
Originally a Cutler-Hammer Product



Size 1 Contactor



Size 2 Contactor



Size 5 Contactor

Parts are no longer available for Pre-3 Star.

Product History Time Line

Size	1920	1940	1960	1980	2000	Present
Sizes 00 – 5	[Timeline bar showing presence from 1920 to 1960]					

Figure 13-1. Product History Time Line for Pre 3-Star, Bulletin 9586 ①

① For all NEMA® rated starters, please contact Standard Open Control Aftermarket at 1-800-535-8992.

Replacement Capabilities

There are no replacement parts available. Replace with new contactor or starter.

Technology Upgrades

Size 00-3 — Freedom or *IT*.
 Sizes 4-5 — Freedom, Vacuum or *IT*.

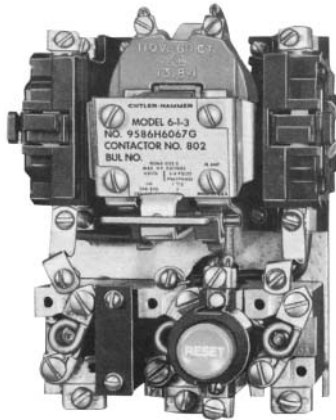


Freedom

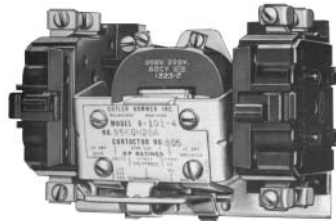
IT.

3-Star

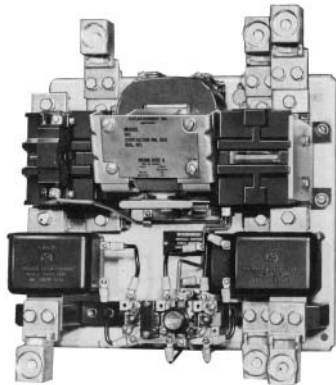
Originally a Cutler-Hammer Product



Typical Size 0 — Starter



Typical Size 1 — Contactor



Typical Size 5 — Starter

Product History Time Line

Size	1950	1955	1960	1965	1970	1975	1985	2000	Present
Size 0		█	█	█	█	█			
Size 1		█	█	█	█	█			
Size 2			█	█	█	█			
Size 3				█	█	█			
Size 4					█	█			
Size 5							█	█	█

Figure 13-2. Product History Time Line for 3-Star, Bulletin 9560, 9586, 9589, 9591, 9556, 9658, 9736 and 9739 ①

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Replacement Capabilities

There are no replacement parts available. Replace with new contactor or starter.

Technology Upgrades

Sizes 00-3 — Freedom or *IT*.
Sizes 4-5 — Freedom, Vacuum or *IT*.