294AS
SERVICE BULLETIN

CLASS 9999 TYPE SM MECHANICAL INTERLOCK KITS — For Use with Type SD — Series A; Size 2, AC Magnetic Reversing or Multi-Speed Contactors and Starters

CLASSES 8702, 8736 and 8810

GENERAL — Class 9999 Type SM kits are designed to interlock two Type S, Size 2, Series A contactors or starters mechanically. The two operating pins of the mechanical interlock assembly protrude through openings in the baseplate of the contactors or starters to engage their movable contact carriers. (See Figures 1 and 2.)

REVERSING CONTACTORS consist of 2 contactors each mounted by three screws on a Class 9999 Type SM mechanical interlock kit. Figures 3-5 show the components for mechanically interlocked reversing contactors. See also the paragraph entitled, "Electrical Interlocking."

REVERSING STARTERS consist of 1 starter and one contactor each mounted by three screws on a Class 9999 Type SM mechanical interlock kit and a Class 9999 Type SO-11 overload relay mounting bracket. The overload relay mounting bracket attaches to the mechanical interlock baseplate with one screw as shown in Figure 1. Figures 6-8 show the components for mechanically interlocked reversing starters. See also the paragraph entitled, "Electrical Interlocking."

MUTI-SPEED STARTERS — Horizontally arranged multi-speed starters (Figures 9-11) consist of two starters each mounted by three screws on a Class 9999 Type SM mechanical interlock kit and two Class 9999 Type SO-11 overload relay mounting brackets. Each overload relay bracket attaches to the mechanical interlock baseplate with one screw as shown in Figure 1. Vertically arranged multi-speed starters (Figures 12-13) consist of a contactor, starter, and overload relay block mounted on a Class 9999 Type SM mechanical interlock kit and a Class 9999 Type SO-12 overload relay mounting bracket. See also the paragraph entitled, "Electrical Interlocking."

ELECTRICAL INTERLOCKING is desirable when building mechanically interlocked devices. A N.C. electrical interlock is normally mounted internally in the lower right-hand corner of each contactor or starter. Two interlocks are, therefore, used on a reversing or multi-speed device. Order each N.C. replacement interlock as Class 9999 Type SX-12.

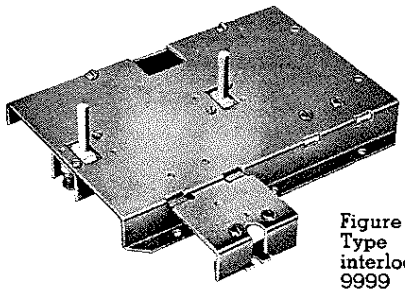

Figure 1 — A Class 9999 Type SM-6 mechanical interlock kit with a Class 9999 Type SO-11 overload relay mounting bracket attached.

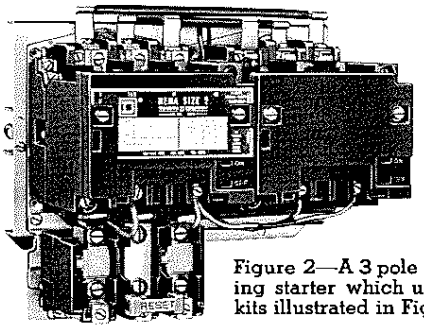

Figure 2—A 3 pole reversing starter which uses the kits illustrated in Figure 1.

CLASS 8702 REVERSING CONTACTORS

VERTICAL ARRANGEMENT

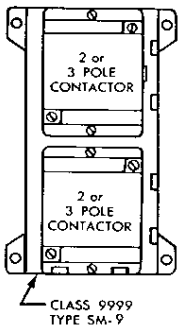

Fig. 3

HORIZONTAL ARRANGEMENT

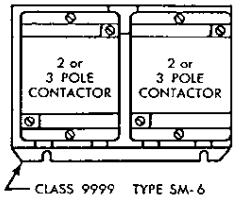

Fig. 4

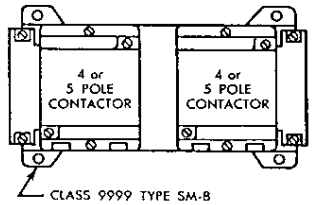

Fig. 5

CLASS 8736 REVERSING STARTERS

VERTICAL ARRANGEMENT

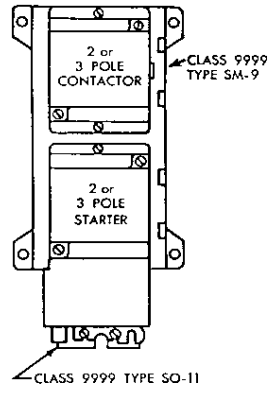

Fig. 6

HORIZONTAL ARRANGEMENT

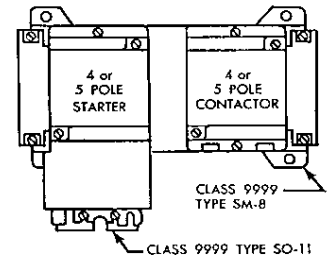

Fig. 7

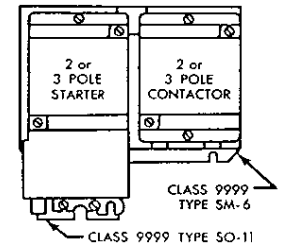

Fig. 8

New Sheet

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CLASS 8810 — TWO SPEED STARTERS

HORIZONTAL ARRANGEMENT

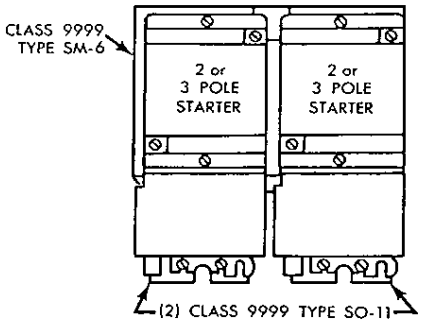

Fig. 10

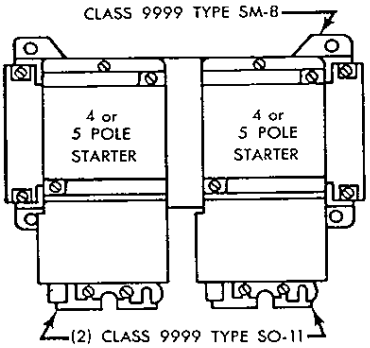

Fig. 9

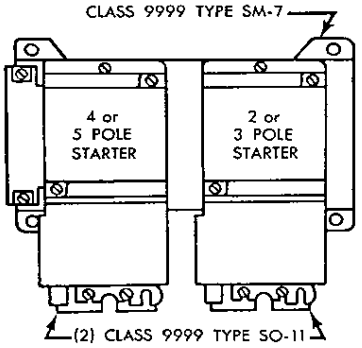

Fig. 11

VERTICAL ARRANGEMENT

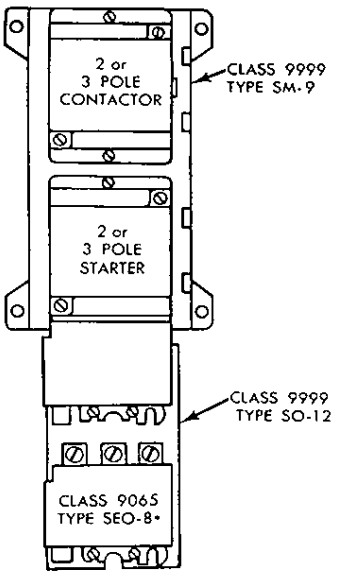

Fig. 12

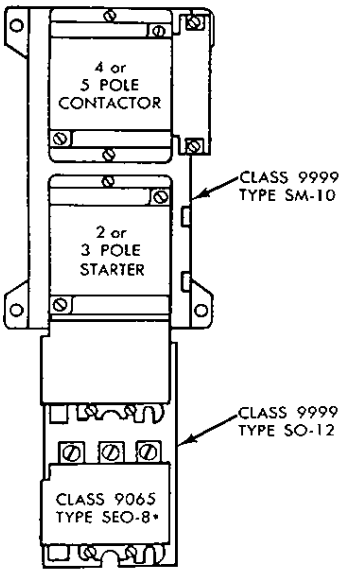

Fig. 13

*The Class 9065 Type SEO-8 overload relay block will accept two thermal units. Order Type SEO-9 if three thermal units are needed or Type SEO-7 if one thermal unit is required. All three blocks are dimensionally the same.