9999-286
SERVICE BULLETIN

CLASS 9999 TYPE SM MECHANICAL INTERLOCK KITS — For Use with Classes 8702, 8736, 8810 Types SA, SB, SC — NEMA Size 00, 0, 1 AC Magnetic Reversing or Multi-Speed Contactors and Starters

GENERAL — Class 9999 Type SM kits are designed to interlock two Type S, Size 00, 0 or 1, contactors mechanically. The two operating pins of the mechanical interlock assembly protrude through openings in the baseplate of the contactors to engage their movable contact carriers. (See Figures 1 and 2).

Reversing Contactors — consist of 2 contactors each mounted by two screws on a Class 9999 Type SM mechanical interlock kit. Figures 3-6 show the components for a mechanically interlocked reversing contactor. See also the paragraph entitled, "Electrical Interlocking".

Reversing Starters — consist of 2 contactors each mounted by two screws on a Class 9999 Type SM mechanical interlock kit and an overload relay block mounted on a Class 9999 Type SO overload relay mounting bracket. The overload relay block and mounting bracket attach to the mechanical interlock baseplate. Figures 3-6 show the parts for a mechanically interlocked reversing starter. See also the paragraph entitled, "Electrical Interlocking".

Multi-Speed Starters — consist of 2 contactors each mounted by two screws on a Class 9999 Type SM mechanical interlock kit and two overload relay blocks mounted on a Class 9999 Type SO overload relay mounting bracket(s).The two overload relay blocks and mounting bracket(s) attach to the mechanical interlock baseplate. Figures 7-12 show the parts needed for a mechanically interlocked multi-speed starter. See also the paragraph entitled, "Electrical Interlocking".

● **Electrical Interlocking** — is desirable when building mechanically interlocked devices. A N.C. auxiliary contact is mounted internally in the lower right hand corner of each contactor and wired to prevent simultaneous energization of the two contactor coils. Two auxiliary contacts are therefore used on a reversing or multi-speed device. Order each N.C. replacement contact as a Class 9999 Type SX-12.

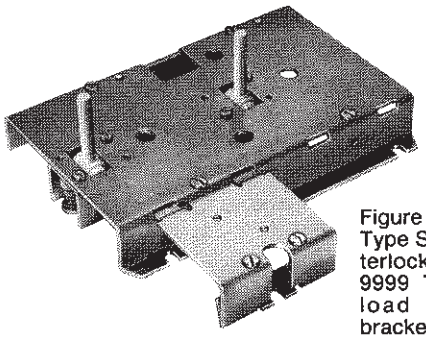


Figure 1 — A Class 9999 Type SM-1 mechanical interlock kit with a Class 9999 Type SO-11 overload relay mounting bracket attached.

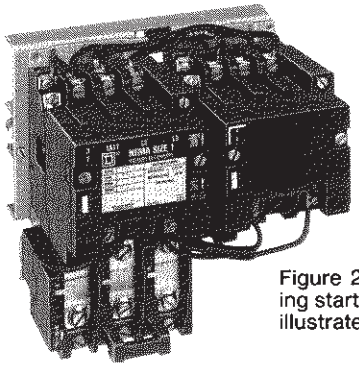


Figure 2 — A 3 pole reversing starter which uses the kits illustrated in Figure 1.

CLASSES 8702 and 8736 — REVERSING CONTACTORS and STARTERS

VERTICAL ARRANGEMENT

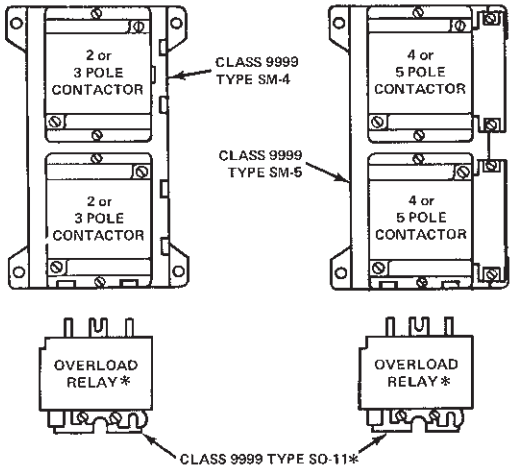


Fig. 3

Fig. 4

HORIZONTAL ARRANGEMENT

Fig. 5

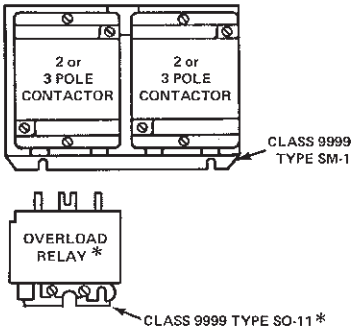
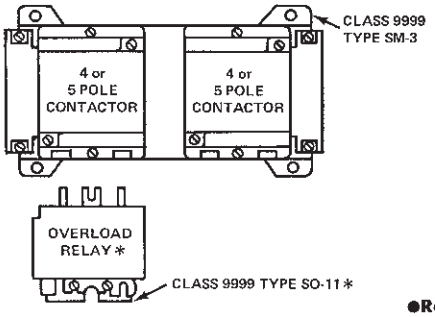


Fig. 6



* Used only with Reversing Starters.

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CLASS 8810 — TWO SPEED STARTERS

VERTICAL ARRANGEMENT

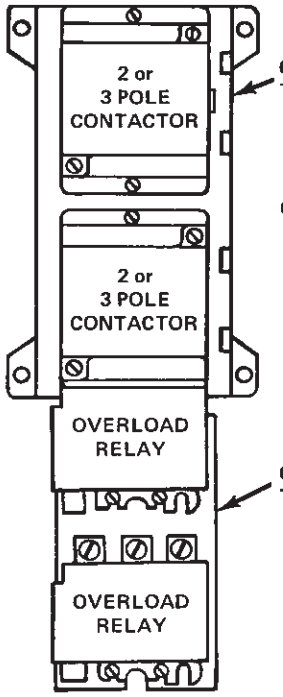

Fig. 7

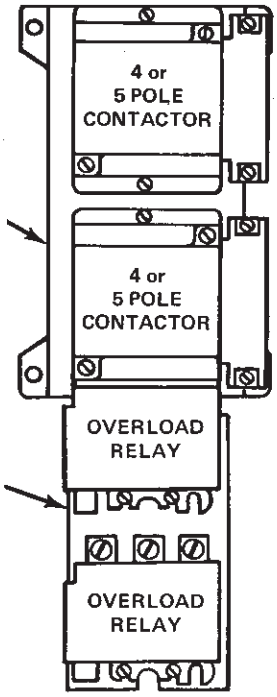

Fig. 8

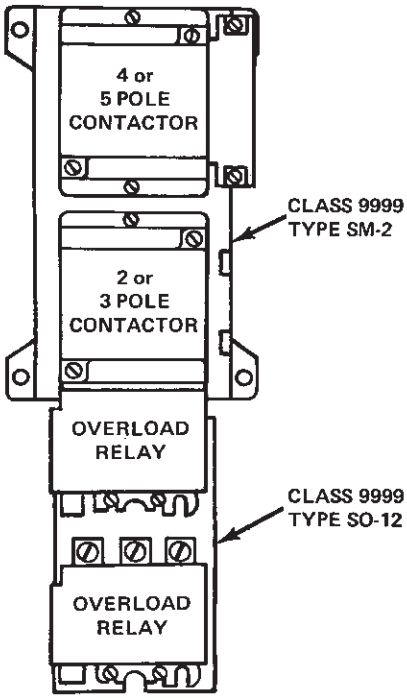

Fig. 9

HORIZONTAL ARRANGEMENT

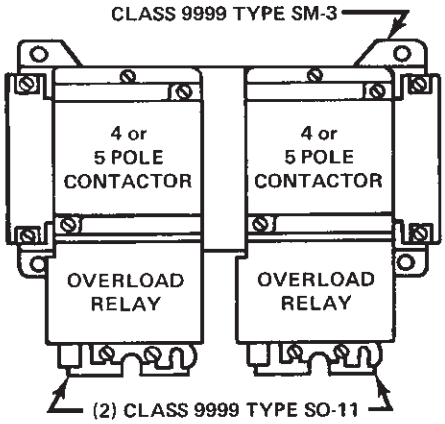

Fig. 10

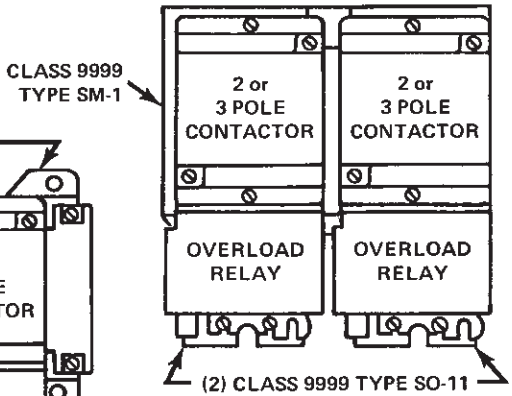

Fig. 11

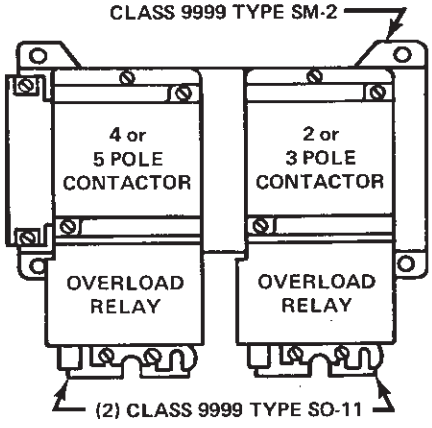

Fig. 12

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⚠ **ADVERTENCIA:** Este producto puede exponerle a químicos incluyendo compuestos de níquel, que son conocidos por el Estado de California como causantes de cáncer. Para mayor información, visite www.P65Warnings.ca.gov.

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