

Mechanical Interlock

General: Type S contactors or starters can be mechanically interlocked so that only one device is energized at a time. The mechanical interlock is an interference (non-jamming) type, locking at the beginning of the stroke of any starter or contactor.

Type S Sizes 00, 0, 1, and 2—The mechanical interlock is mounted on the underside of the reversing baseplate. Two pins extend from the mechanical interlock through openings in the baseplate and engage the contact carrier of each contactor. Two styles of mechanical interlocks are used: one version for three pole contactors, a different version for four or five pole contactors. *When adding a power pole to the left side of an existing Size 0, 1, or 2 three-pole reversing contactor, a new mechanical interlock must also be installed. When added to the right side only, the power pole is not mechanically interlocked with the left-hand contactor.*

Type S Sizes 3 and 4—The mechanical interlock is separate from the mounting pan on Sizes 3 and 4. Cams on the mechanical interlocks are operated by the contact carrier of each contactor. The mechanical interlock is attached to the underside of the two contactor baseplates on Sizes 3 and 4.

NOTE: The mechanical interlock kits in Table 16.384 can be used to interlock 2–5 pole contactors. Mechanical interlocks for horizontal and vertical arrangement are listed in various pole arrangements.

Mechanical interlock Types SM1 through SM10 for Sizes 00-2 devices use overload relay mounting brackets to support the overload relay portion of the starter. See Table 16.385.

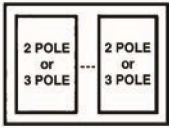
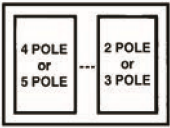
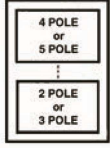
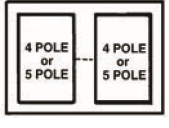
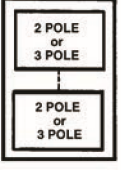
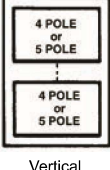


Type SM1



Type SM12

Table 16.384: Mechanical Interlock for Two Contactors

			Contactor NEMA Size	Class 9999 Type
 Horizontal Type SM1 for Size 00–1 Type SM6 for Size 2 Type SM12 for Sizes 3 & 4	 Horizontal Type SM2 for Size 0 or 1 ^[14] Type SM7 for Size 2 Type SM12 for Sizes 3 & 4	 Vertical Type SM2 for Size 0 or 1 ^[14] Type SM10 for Size 2 Type SM11 for Size 3 Type SM13 for Size 4	00, 0, 1 0, 1 0, 1 0, 1 0, 1	SM1 SM2 SM3 SM4 SM5
 Horizontal Type SM3 for Size 0 or 1 Type SM8 for Size 2 Type SM12 for Sizes 3 & 4	 Vertical Type SM4 for Size 0 or 1 Type SM9 for Size 2 Type SM11 for Size 3 Type SM13 for Size 4	 Vertical Type SM5 for Size 0 or 1 Type SM11 for Size 3 Type SM13 for Size 4	2 2 2 2 3 3, 4 4	SM6 SM7 SM8 SM9 SM10 SM11 SM12 SM13



Overload Relay Mounting Bracket

Table 16.385: Overload Relay Mounting Bracket

Kit Description	Class 9999 Type
Bracket for one overload relay used with horizontal mechanical interlocks, Types SM1 through SM10	SO11
Bracket for two overload relays used with vertical mechanical interlocks, Types SM2, SM4, SM5, SM9 and SM10	SO12

Table 16.386: How to Order

To Order Specify:	Catalog Number	
• Class Number	Class	Type
• Type Number	9999	SM1

[14] The Type SM2 interlock is factory assembled for horizontal mounting, but can easily be converted to vertical mounting. Conversion instructions are included.