



## TYPE 4012 REVERSING CONTROL FOR USE WITH MECHANICAL LOAD BRAKE FOR HOIST SERVICE



An effective hoist controller for applications where speeds can vary with the load and frequent lowering is not required. Timing devices or frequency responsive relays for accelerating contactors provide smooth acceleration control.

The first hoist position of the master switch provides low torque for taking up slack cable and hoisting light loads. Subsequent master switch points allow additional contactors to close until the desired hoisting speed is attained. Movement of the master switch in the lowering direction produces similar results. The load is driven downward against the retarding action of the mechanical load brake and timed or frequency responsive accelerating relays provide smooth acceleration.

Type 4012 reversing control panels are suitable for use with ac wound rotor motors on crane hoist drives.

Type 4012 controllers are for use on hoists that are equipped with a mechanical load brake or a means of providing control of overhauling loads. These controllers provide good speed control hoisting and lowering, within the capability of the mechanical load brake.

Panels are arranged for use with a power limit switch and separate ac or rectifier operated dc brakes.

Suitable for all NEMA and CMAA service classes.

Recommended for: NEMA service Class I, CMAA service Classes A1, C, D, E, F.

### MATERIAL LIST FOR TYPE 4012 SINGLE MOTOR CONTROLLER WITH PROTECTION

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|--|---|
| 1 — Three pole knife switch.                                   | 2 or 3 or 4 or 5 — Frequency relays.                          |
| 1 — Two pole fused control knife switch.                       | 1 — Control circuit transformer 480-240/240-120V single phase |
| 3 — Magnetic overload relays, inverse time.                    | 1 — Control circuit rectifier.                                |
| 1 — Two pole mainline contactor.                               | 1 — Undervoltage relay.                                       |
| 2 — Two pole directional contactors with mechanical interlock. |   |
| 3 or 4 or 5 or 6 — Two pole accelerating contactors.           |   |

# TYPE 4012 REVERSING HOIST MECHANICAL LOAD BRAKE

## ELEMENTARY DIAGRAM FOR HOIST CONTROL



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