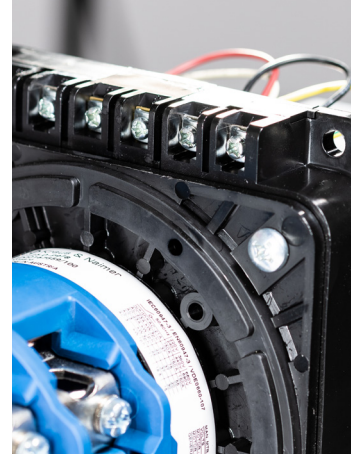
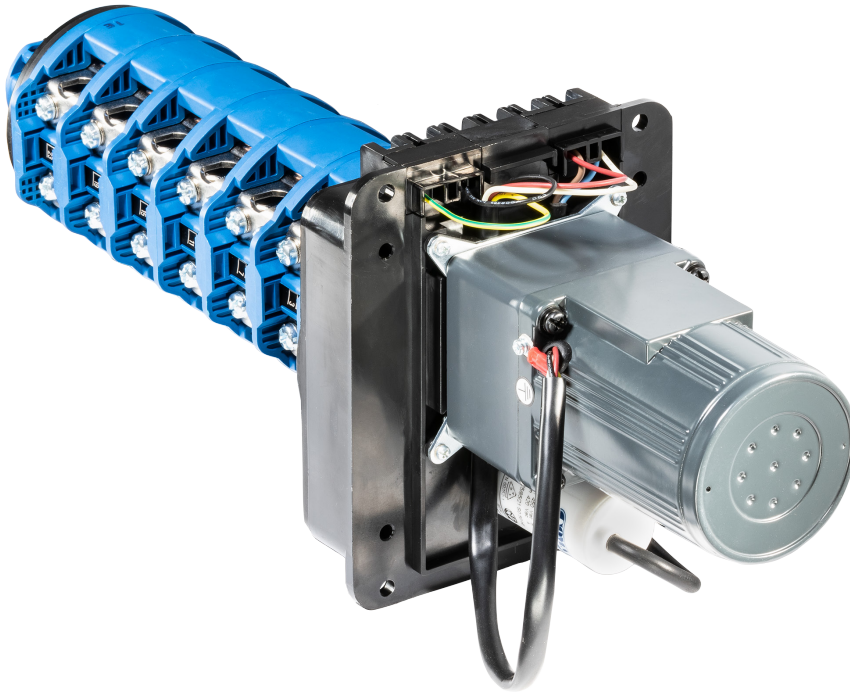




Kraus & Naimer

R300 Motor drive for Kraus & Naimer switches



Function

The motor drive is equipped with an A.C. reversing type motor with reduction gearing coupled to a Kraus & Naimer designed gear box, which provides additional reduction and which is fitted with a Geneva gear for direct switch operation. It also includes a gear box latching device and interrupter contact for switch operation and positioning purposes.

The design of the Geneva gear allows the switch to be manually operated when the motor is not activated.

It is independent of the switch mechanical load thus preventing switch overstepping and also permitting the operation of different switch loads including size 1 through and including size 3.

Control Systems (Diagrams see page 3)

System A1

Single-step and multi-step control system for uni-directional operation.
If the master switch controlling contact is closed, unit starts to step. After opening the contact, the step – which may have been commenced – will be completed automatically (interrupter contact).

System A3

Single-step control system for uni-directional operation.
If the control contact in the master switch is closed, the motor driven switch steps once. Further stepping is only possible after the master switch is opened and closed again. For this control system an auxiliary relay is required. It has to be controlled by a momentary contact, which closes between the positions of the master switch (e.g. development A11 ADD213). Minimum pulse length for the control contact in the master switch approx. 1 sec.

System B1

Alternating pulse control system for uni-directional operation.
This control system makes it possible to get single step operation without the use of an auxiliary contactor, but with an appropriate homing switch and master switch only.

System D1

Master slave control system for uni-directional operation.
The motor driven switch follows the master switch automatically in one direction. It stops only if both switches are in the same position. An appropriate master switch and homing switch is necessary (e.g. developments A239 + M412 and HOM882).

System A2

Single-step and multi-step control system for bidirectional operation.
Function similar to system A1, whereby the direction of rotation has to be selected by an appropriate preselector switch. The master switch can be combined with the preselector switch (e.g. development A182). The use of limit contacts in the main switch assembly is recommended in order to avoid overrunning of the end positions.

System A4

Single-step control system for bidirectional operation.
Function similar to system A3. Preselection of the direction of rotation by an appropriate switch is necessary (e.g. development A221). The use of limit contacts in the main switch assembly is recommended in order to avoid overrunning of the end positions. Minimum pulse length for the control contact in the master switch approx. 1 sec.

System B2

Alternating pulse control system for bidirectional operation (2 positions).
Function similar to system B1. The master switch must include additional contacts connecting the interrupter with the correct motor terminals depending on direction of rotation required.

System D2

Master slave control system for bidirectional operation.
The motor driven switch follows the master switch automatically in both directions. An appropriate master switch and homing switch is necessary (e.g. developments A239 and HOM883).

ATTENTION:

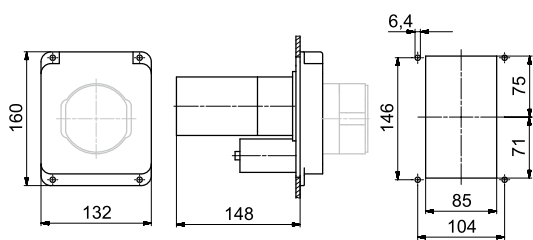
The motor is designed for carrying out occasional switching operations only and not for continuous duty.

Mounting Instruction:

The motor driven switch must be mounted in horizontal position.

Dimensions:

Dimensions in mm



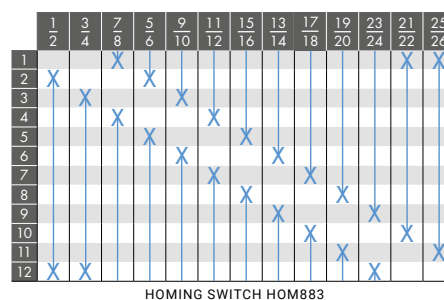
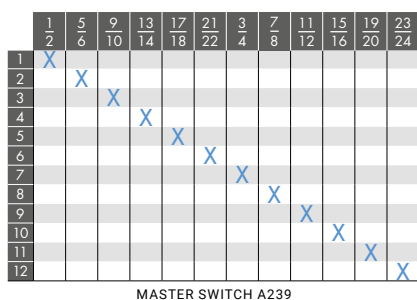
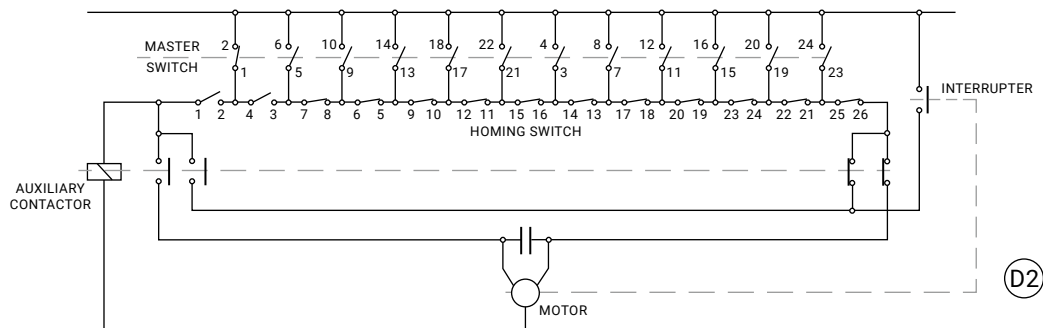
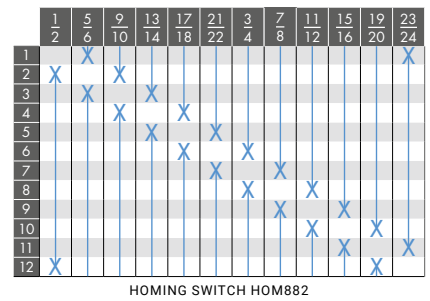
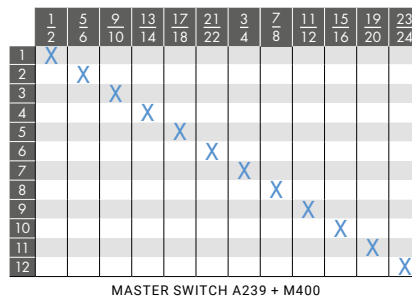
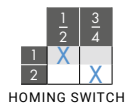
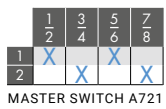
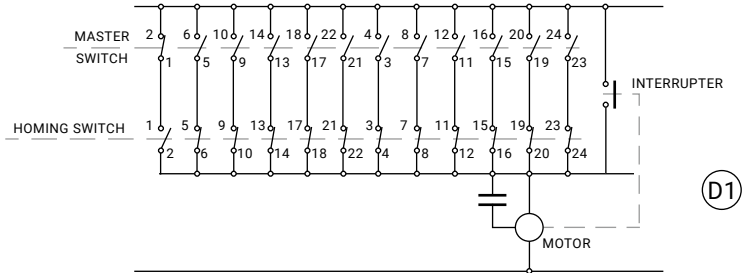
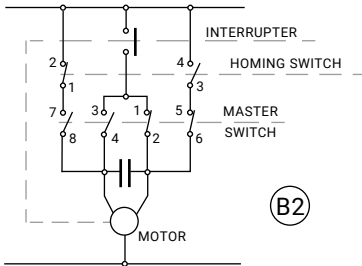
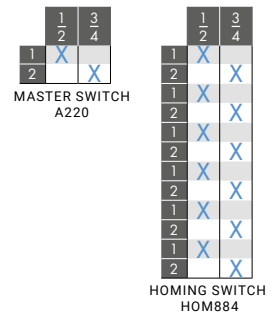
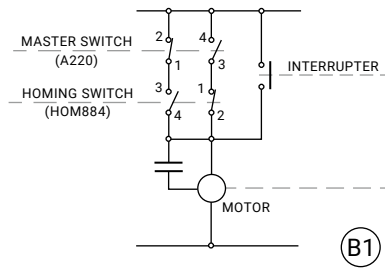
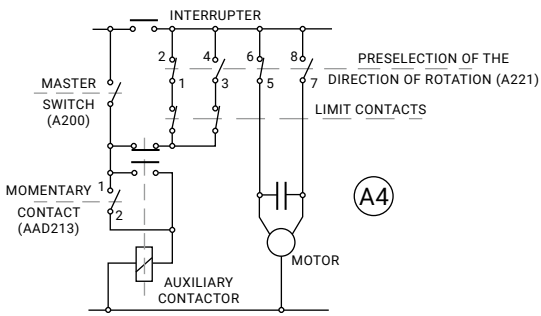
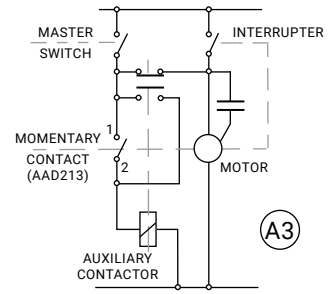
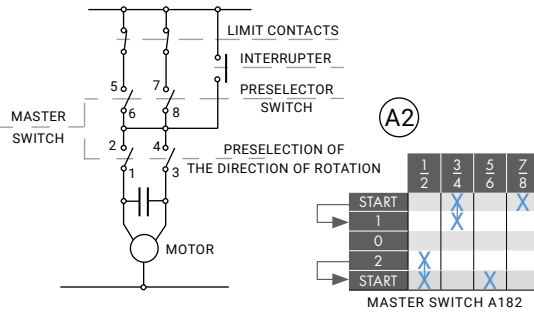
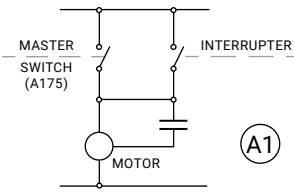
Application examples:

- Indirect actuation of switching devices with high switching torque
- Remote control of switching devices, which are not located in the direct environment
- Actuation of switching devices via PLC etc.

Available versions:

- 220V–240V 50/60Hz 30 rpm
- 110V–120V 50/60Hz 30 rpm

Diagrams:





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