NS2/NSB2-KA HEAVY MILL DUTY AC & DC MASTER SWITCH

Construction:

The type **NS2/NSB2-KA** series of master switch controllers are characterized by their versatility and rugged construction for step and stepless AC & DC controls.

Application:

For use in Steel Mills, Process Lines, Foundry Cranes, Mining Shovels, and Logging Equipment.

Features:

- Rugged Construction: Cast construction, double ball bearing operating shaft.
- Mechanical Life: 20 Million Cycles.
- Serviceability: Corrosion resistant components.
- **Handle:** Variety of handle styles and handle operated deadman functions.
- **Precise Step Control:** Up 7-0-7 individually detented steps.
- Contacts: (10) 25A 600 VAC double pole fieldreplaceable contacts. Type NSB2 DC contacts with magnetic blow outs
- **Potentiometers:** 0.5 watt 5 million revolutions conductive plastic furnished standard.
- **Transformers:** Type DGO rotary differential transformers for variable speed drives.
- Electronics:

ESS-420: 4-20 milli-amp 2 wire transmitter.

ESS0.10.10: 0-10 and \pm 10V amplifiers.

Absolute Encoder: 8 Bit 24VDC gray code.

PFC and PFC/CR Proportional Feathering Control electronic amplifiers for operation of Electro-Hydraulic Proportional Valves.

Enclosures: Variety of standard steel consoles available;
 NEMA 1, 3R, 4 and 12.



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NS2/NSB2-KA ORDERING INFORMATION

Basic Assembly: 9 1/2" Shaft length and round ball handle supplied standard.

Drive Arrangement: N = Left, U = Right

Handle: Reference Handle for a selection of custom handles and handle operated deadman functions.

Contacts: Each contact block supplied with 2 poles.

Maximum number of Contacts in each axis = 10 (5 double pole contact blocks).

Reference NS2/NSB2-KA dimensions for types available and applicable handle angle. Detents:

Potentiometers: 0.5 watt 5 million operations standard, specify resistance and type required.

(Consult factory for custom requirements.)

See PFC or PFC/CR, (Proportional Feathering Control electronics) for ordering information. **Electronics:**

Rotary Transformer: See DGO transformer ordering information.

NS2-KA Technical Data —

Mechanical:

Operating Temperature: -25° to +70°C

Detented Positions: Up to 7-0-7

Mechanical Life: 20 million plus cycles

Gear Ratio: 3:1

Handle Travel: $\pm 40^{\circ}$

Potentiometer rotation: ±120°

Operations: Normal duty cycle

1000 operations per hour

Electrical:

- Contacts: Double Pole contact blocks, 20 circuits maximum. (consult factory if additional circuits required.)
- Rating AC: NS2-KA

AC continuous 25 amps @ 600 volts AC resistive 20 amps @ 240 volts AC inductive 14 amps @ 240 volts

Rating DC:

NSB2-KA (with magnetic blow-out)

Resistive 5 amps @ 250 volts Inductive 2 amps @ 250 volts

Maximum Switching Capacity:

Making – 160 amps

Breaking - (0.7PF) 240V 160 amps.

Electro Mechanical Life: Breaking AC current.

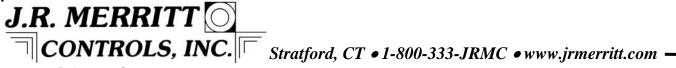
Resistive: 1 million operations @ 16 amps 240 V

10 million operations @ 4 amps 240 V

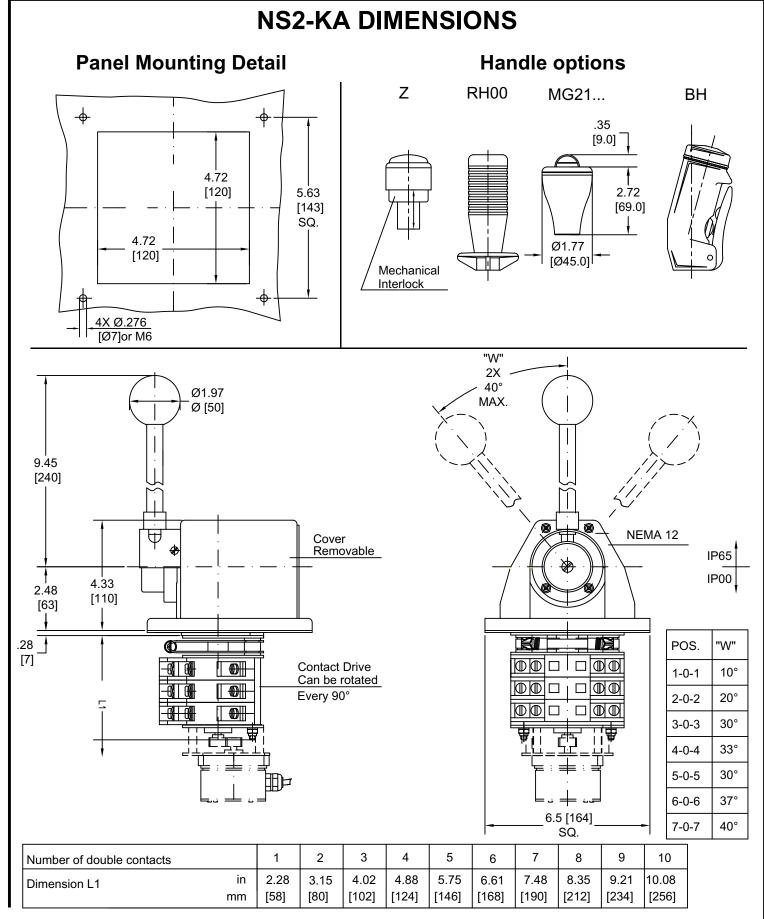
Inductive: 1 million operations @ 15 amps 240 V

10 million operations @ 2 amps 240 V

Approvals: CSA file No. 15040



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J.R. MERRITT

Each double pole
Contact block - 0.9 lbs [0.4 kg. cm.]

CONTROLS, INC.

Stratford, CT · 1-800-333-5762 · www.jrmerritt.com

Operating head -10 lbs[4.5 kg]

Contact block - 0.9 lbs [0.4 kg]