



NRS-100 - Explosion-proof Reversing Contactor



Technical Specifications:

Design	I M2(M1) Ex d[ia] I
Nominal supply voltage	500VAC 660VAC
Current through a power part	100A
Crosscut of connected conductors, controlling power	0.2 to 4mm ² 6 to 120mm ²

Intrinsic-Safe Parameters:

Controlling input	U ₀ =17.4V I ₀ =18.3mA L ₀ =5mH C ₀ =1.2μF
Inhibiting input	U ₀ =9.6V I ₀ =11mA P ₀ =26mW L ₀ =10mH C ₀ =0,74μF
Temperature range	0°C to +40°C
Relative humidity	95% non-condensing
Ingress protection	IP 54
Dimensions	1403 x 665 x 241mm
Weight	192kg

Application:

The explosion-proof reversing contactor is intended for environments with and explosion hazard in gaseous mines for remote controlling of electric machines, for example drives. The contactor is designed for connection of one device with reversing with a power input of 75 kW, or two devices without reversing with the total power input of max. 75 kW.

Description and Functions:

The explosion-proof reversing contactor NRS-100 is in the design of a pressure-proof casing I M2 (M1) Ex d[ia] I. The explosion-proof reversing contactor consists of instrument space in the design Ex d and Ex ia equipped with bushings in the explosion-proof design. The rooms of terminal boards are interconnected with the instrument space by means of explosion-proof bushings.

The space for the terminal boards is in the design Ex ia and it is intended for connection of intrinsic-safe actuating circuits. The space for the terminal boards is in the design Ex d and it is intended for power connection of actuated devices, e.g. drives.

On the lid of the instrument space, there are components for controlling and monitoring of the reversing contactor operation.

- Inspection holes, through which one can watch indication of contactor status, the value of supply voltage and the PLC display (for the specific variation).

- The controller of the reverser, emergency STOP button, test buttons and the reset button of the main circuits

Controlling of the reserving contactor is to be done either manually by means of intrinsic-safe push-button controllers connected to the contactor, or without any intervention of service staff when the cause of blocking has been removed.

The contactor will switch off automatically if there is a fault in supply of an actuated drive (e.g. ionization status failure), or if there is a failure of drive, provided that it has been monitored.

The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.